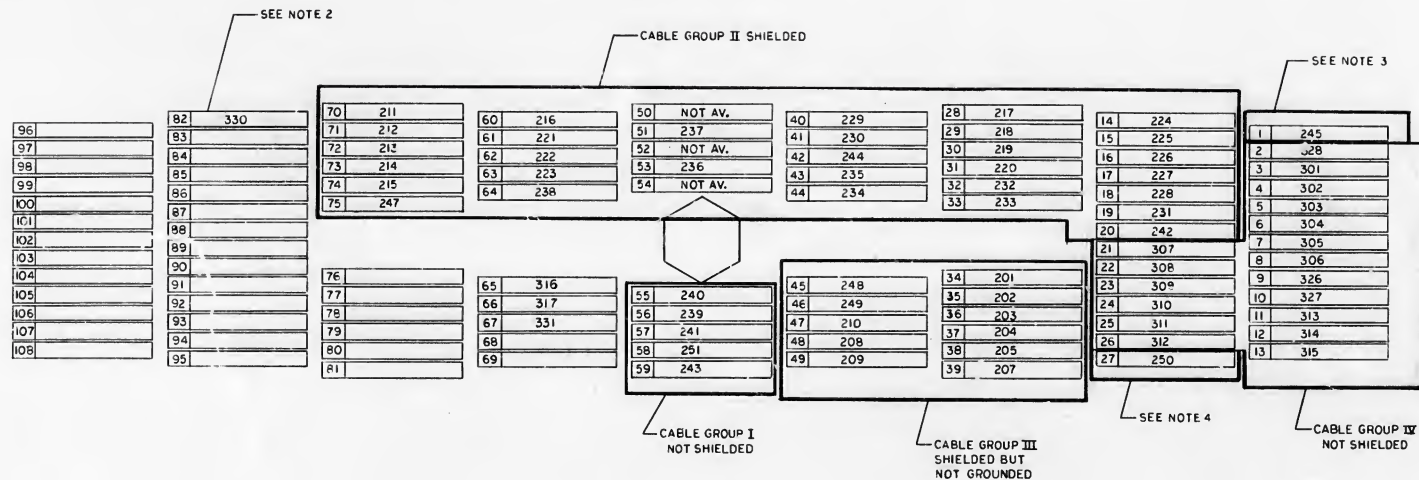


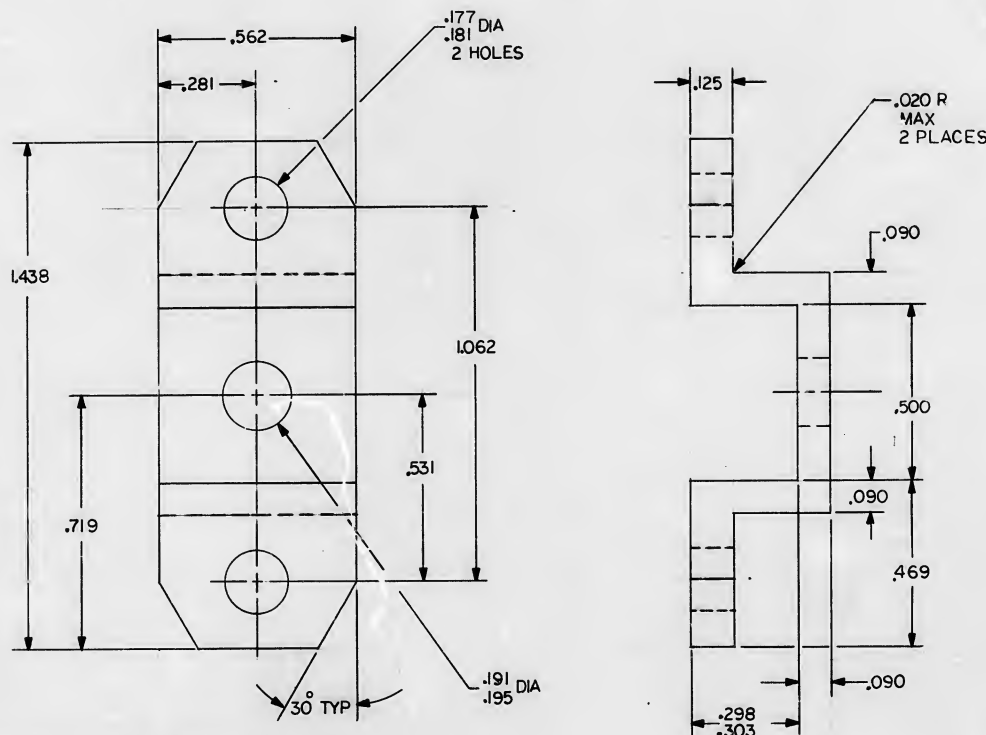
REVISIONS 07053			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 07347 DR @ Jonan CHK Out	6/11/14	KAC



1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ALL CABLE GROUP II AND III SIGNAL RETURN WIRES WILL BE COMMONED ON J BOX HARNESS AND BROUGHT THRU ON PIN 82
3. THE SHIELD FOR CABLE GROUP II IS CONNECTED TO PIN NO 1
4. THE SHIELD FOR CABLE GROUP III IS TIED TO PIN 27
5. FIGURE DENOTES THE CONTACT SIDE OF THE MALE CONNECTOR ATTACHED TO THE DSK WITH MALE PINS

		QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIN NO	
		LIST OF MATERIALS							
		M I T INSTRUMENTATION LAB CHAMBERLAIN BLVD DWS NO. _____ OBJECT# _____ DRAWN <i>B. H. Morgan</i> DATE <i>2-25-68</i> CHECKED _____ APPROVAL <i>W. G. Morgan</i> <i>2/25/68</i> APPROVAL <i>E. J. Morgan</i> <i>2/25/68</i>				MANNED SPACECRAFT CENTER HOUSTON, TEXAS SIGNAL PIN ASSIGNMENT 05A6PI CONNECTOR NAV PANEL DSKY			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm \pm \pm DO NOT SCALE THIS DRAWING MATERIAL \pm		HEAT TREATMENT \pm NEXT ASSY USED ON APPLICATION		FINAL FINISH \pm MIT APPROVAL <i>W. G. Morgan</i> <i>2/25/68</i>		CODE IDENT NO. SIZE D 1004252		NASA DRAWING NO. 1004252	
		SCALE NONE		WT \pm		SHEET I		OF	

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FURNISHED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED AS IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONFIRMING THE RIGHTS OR PERMISSION TO REPRODUCE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.



NOTES:-

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL 416 CRES PER QQ-S-763 CLASS 416 COND A
3. FINISH: PAINT WITH 101C729-2 LIGHT GREY EPOXY RESIN ENAMEL PER ND
- 4 .125/FINISH ALL OVER
- 5 REMOVE BURRS AND BREAK SHARP EDGES .005
.015

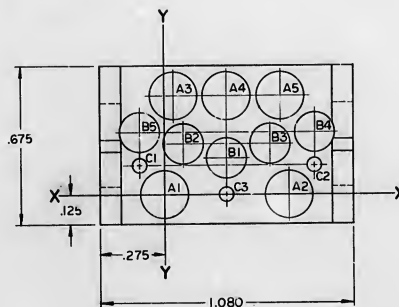
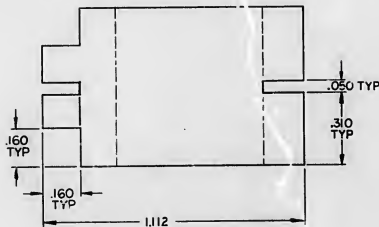
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REVISIONS 03/33			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 05639	1/8/69	W. J. B. WK
B	REVISED PER TDRR 05795	2/25/69	W. J. B. WK

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN <i>W. J. B.</i> DATE <i>1-8-69</i>		RETAINER, JACK SCREW	
CHECKED <i>W. J. B.</i> DATE <i>1-8-69</i>			
APPROVAL <i>W. J. B.</i> DATE <i>1-8-69</i>			
NASA APPROVAL <i>W. J. B.</i> DATE <i>1-8-69</i>		CODE IDENT NO.	SIZE
MIT APPROVAL <i>W. J. B.</i> DATE <i>1-8-69</i>		SCALE 4/1	WT
NEXT ASSY		USED ON	APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON		
FRACTIONS	DECIMALS	ANGLES
±	± .005	± 2°
DO NOT SCALE THIS DRAWING		
MATERIAL		
SEE NOTE 2		
HEAT TREATMENT		
Rc 37 TO Rc 40		
FINAL FINISH		
SEE NOTE 3		

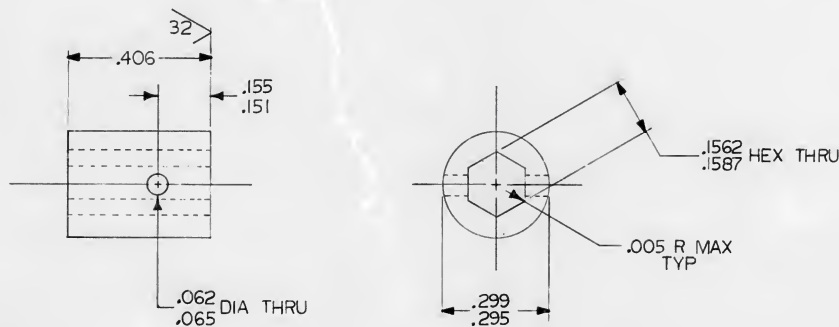
MASTER



1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS
PRESCRIBED BY MIL-D-70327
2. MATL: MAGNESIUM ALLOY, ZK-60A-T5 PER QQ-M-31
3. TRUE POSITION AS SHOWN IN CHART
4. REMOVE ALL BURRS AND BREAK SHARP EDGES .005/.015
5. FINISH: ANODIZE PER MIL-M-3171 TYPE IV
6. .425/ ALL OVER
7. ALL FILLETS AND RADII .005/.020

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		<div style="text-align: center;"> M I T INSTRUMENTATION LAB CHAMBER HALL DATE: 02-25-83 TIME: 10:00 AM </div>		<div style="text-align: center;"> MANNED SPACECRAFT CENTER HOUSTON, TEXAS </div>		
		TOLERANCES ON FRACTIONS DECIMALS ANGLES = .005 =		DRAWN <i>[Signature]</i> DATE 8-22-83 CHECKED <i>[Signature]</i> DATE 11-14-83 APPROVAL <i>[Signature]</i> NASA SPS-15 APPROVAL <i>[Signature]</i>		<div style="text-align: center; font-size: 2em;"> HOLDER, COMPONENT STRAND GATE MODULE </div>		
		DO NOT SCALE THIS DRAWING MATERIAL						
1003162		SEE NOTE 2		NASA APPROVAL <i>[Signature]</i>		CODE IDENT NO	SIZE	NASA DRAWING NO.
1003171		HEAT TREATMENT						1004255
NEXT ASSY		USED ON		MIT APPROVAL <i>[Signature]</i>		SCALE 4/1	W	
APPLICATION		FINAL FINISH						SHEET 1 OF
		SEE NOTE 5						

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- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. MATERIAL: 416 CRES PER QQ-S-763 CONDITION A
 3. HEAT TREAT TO ROCKWELL C35-C40
 4. SURFACE QUALITY: .125/ UNLESS OTHERWISE SPECIFIED
 5. REMOVE ALL BURRS AND SHARP EDGES .005/.015
 6. FINISH: PASSIVATE PER MIL-F-14072 E 300

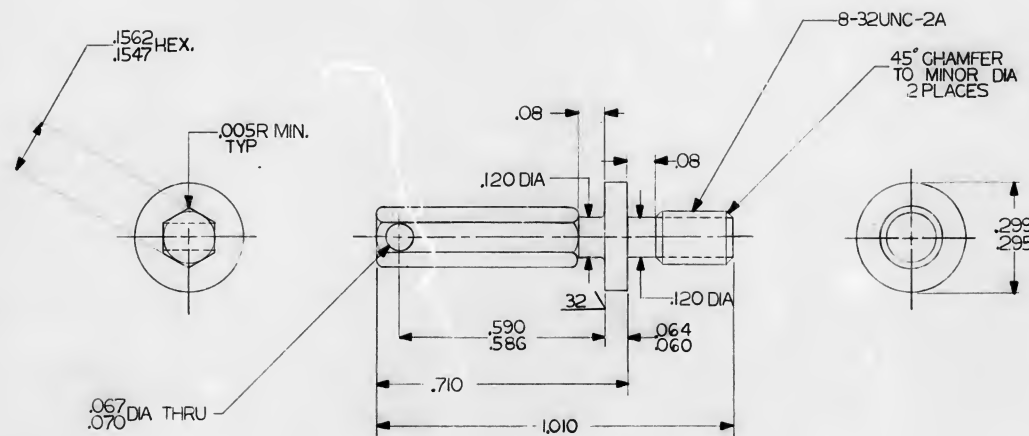
QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIND NO.	
LIST OF MATERIALS							
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.				MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
DRAWN <i>W. J. [signature]</i> DATE 8-22-63				DRIVE CYLINDER, EJECTION SCREW			
CHECKED <i>W. J. [signature]</i> DATE 10-5-63							
APPROVAL <i>W. J. [signature]</i> DATE 10-5-63							
MATERIAL SEE NOTE 2				NASA APPROVAL <i>W. J. [signature]</i>			
HEAT TREATMENT SEE NOTE 3				CODE IDENT NO. C NASA DRAWING NO. 1004256			
FINAL FINISH SEE NOTE 6				SCALE 4/1 WT SHEET 1 OF 1			
NEXT ASSY		USED ON		APPLICATION			

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A SPECIFICALLY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OMISSIONS, ERRORS, OR THE FACT THAT THE GOVERNMENT HAS NOT BEEN ADVISED OF ANY CHANGE IN ANY OF THE DATA OR SPECIFICATIONS OR OTHER DATA IS NOT TO BE CONSIDERED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSIONS TO REPRODUCE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THEREIN.

1004257

REVISIONS 03/39

SYM	DESCRIPTION	DATE	APPROVAL



NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: 416CRES PER QQ-S-763 CONDITION A
3. HEAT TREAT TO ROCKWELL C35-C40
4. SURFACE QUALITY 125/EXCEPT WHERE OTHERWISE SPECIFIED
5. REMOVE ALL BURRS AND BREAK SHARP EDGES .005/.015
6. FINISH: PASSIVATE PER MIL-F-14072 E300
7. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .010R MAX

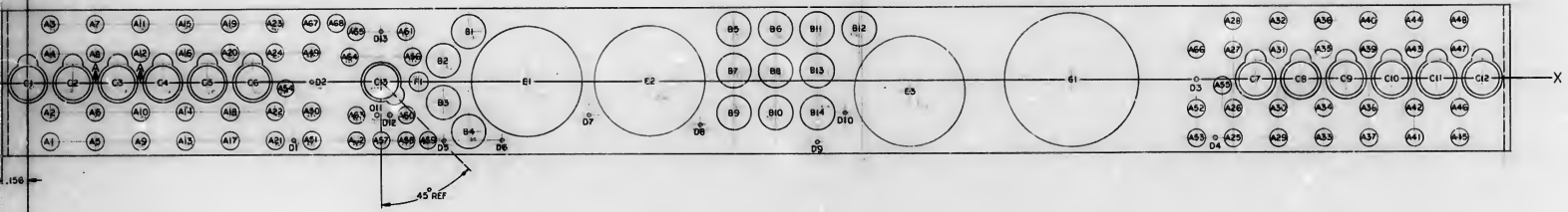
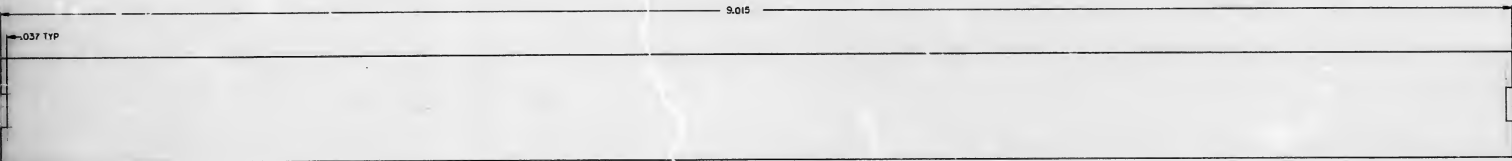
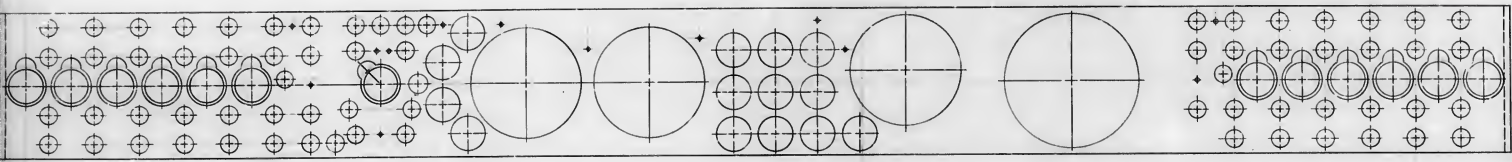
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON	
FRACTIONS	DECIMALS
±	XXX±.005
	XX±.02
DO NOT SCALE THIS DRAWING	
MATERIAL	
SEE NOTE 2	
HEAT TREATMENT	
SEE NOTE 3	
FINAL FINISH	
SEE NOTE 6	
NEXT ASSY	USED ON
APPLICATION	

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DWS NO. CONTRACT		DATE 8/27/63	
DRAWN D. G. G. DATE 8/27/63		CHECKED C. P. G. DATE 10/5/63	
APPROVAL W. S. G. DATE 10/5/63		APPROVAL W. S. G. DATE 10/5/63	
NASA APPROVAL W. S. G. DATE 10/5/63		NASA DRAWING NO. 1004257	
MIT APPROVAL W. S. G. DATE 10/5/63		SCALE 4/1	
		SHEET 1 OF 1	

1004257

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1004259 A

QTY REQD	PART OR IDENTIFYING NO	INCORPORATION OR DESCRIPTION	FIG NO.
LIST OF MATERIALS			
MANIPULATED SPACECRAFT CENTER HOUSTON, TEXAS			
HOLDER, COMPONENT			
DRIVER SERVICE MODULE			
100317.3		CODE IDENT NO	1004259
NEXT ASSY		BY	J
APPLICATION		SCALE	1/1

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ON
 FRACTIONS DECIMALS ANGLES
 .005 .005 .2°
 DO NOT SCALE THIS DRAWING
 MATERIAL
 SEE NOTE 2
 PREP. APPROVAL 11/1/01
 DATE 11/1/01
 BY 1004259

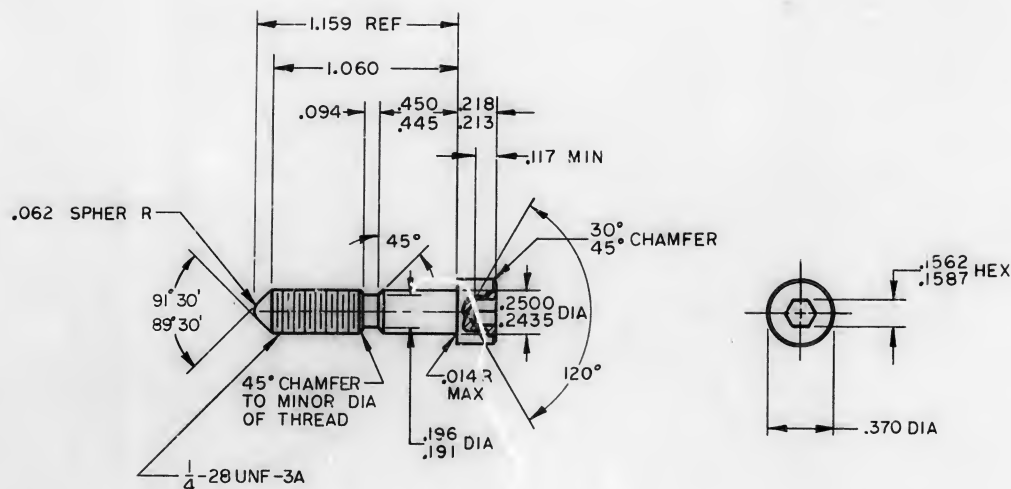
1004259 A

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1004261

REVISIONS 03/39

SYM DESCRIPTION DATE APPROVAL



NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: MAKE FROM SHOULDER SCREW, UNKNURLED HEAD/ MS-I6637-15 OR 416 CRES/ QQ-S-763
3. FINISH: PASSIVATE/ MIL-F-14072 E300.
4. 63/ ALL OVER UNLESS OTHERWISE SPECIFIED.
5. BREAK SHARP EDGES .005 .015

QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIND NO.	
LIST OF MATERIALS							
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.				MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
DRAWN <i>E. Gross</i> DATE <i>28 AUG 63</i>				SCREW, JACK			
CHECKED <i>W. J. Smith</i> DATE <i>10 SEP 63</i>							
APPROVAL <i>W. J. Smith</i>							
MATERIAL SEE NOTE 2				NASA DRAWING NO. 1004261			
HEAT TREATMENT Rc 37 TO Rc 40				CODE IDENT NO.		SIZE C	
FINAL FINISH SEE NOTE 3				NASA APPROVAL <i>W. J. Smith</i> DATE <i>12 SEP 63</i>		MIT APPROVAL <i>W. J. Smith</i> DATE <i>12 SEP 63</i>	
NEXT ASSY		USED ON		SCALE 2/1		WT	
APPLICATION				SHEET		OF 1	

4

3

2

1

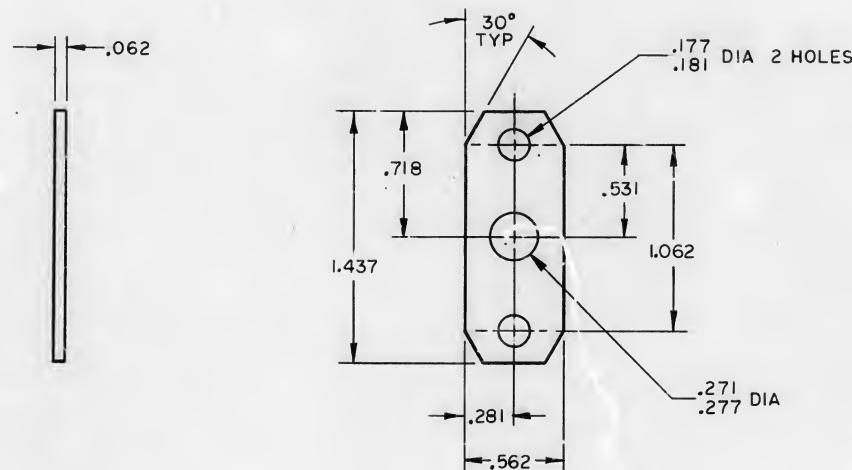
NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWING, SPECIFICATION, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONFIRMING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

A

1004262

REVISIONS 03/39

SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 05639	1/7/68	W. J. [Signature]



NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: 410 CRES/ QQ-S-766 CLASS 410
3. PASSIVATE/ MIL-F-14072, E300
4. BREAK SHARP EDGES .005
.015

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN <i>C. [Signature]</i> DATE <i>17 AUG 63</i>		PLATE, BACKING	
CHECKED <i>[Signature]</i> DATE <i>10 SEP 63</i>			
APPROVAL <i>[Signature]</i>			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± .XXX ± .005 ± 2°		CODE IDENT NO. SIZE C	
DO NOT SCALE THIS DRAWING MATERIAL SEE NOTE 2		NASA DRAW'NG NO. 1004262	
HEAT TREATMENT R _C 37 TO R _C 40		SCALE 2/1	
FINAL FINISH SEE NOTE 3		SHEET 1 OF 1	
MIT APPROVAL <i>[Signature]</i> DATE <i>12/1/63</i>			

4

3

2

1

6

5

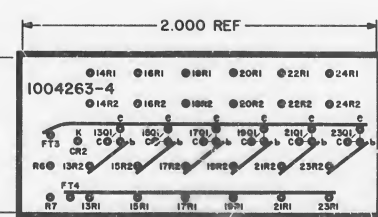
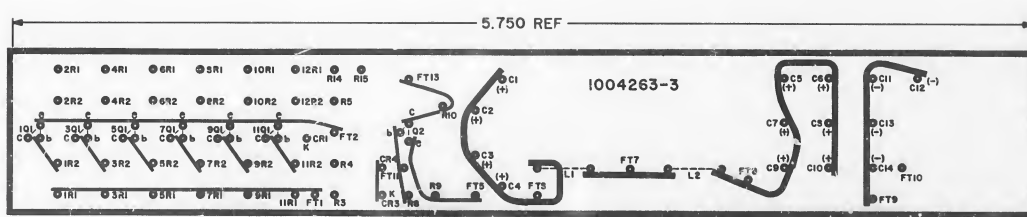
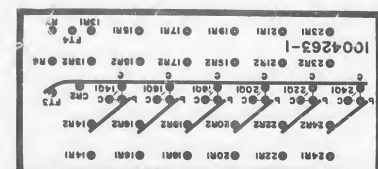
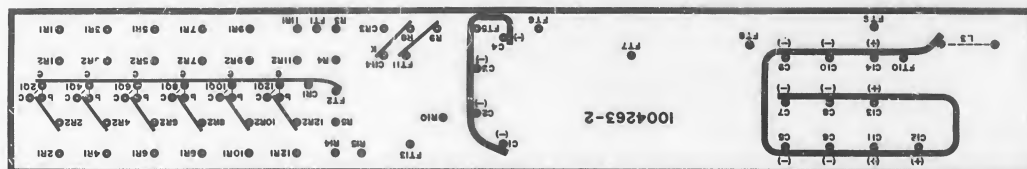
4

3

2

1

REV	DESCRIPTION	DATE	BY	CHK
A	REVISED PER TORR 07217	11/17/64	WJC	WJC
B	REVISED PER TORR 07265	11/17/64	WJC	WJC
C	REVISED PER TORR 07330	11/17/64	WJC	WJC
D	REVISED PER TORR 07330	11/17/64	WJC	WJC



2.000
PHOTO
REF
DIM.

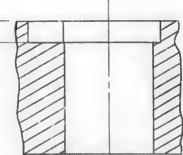
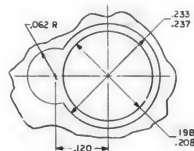
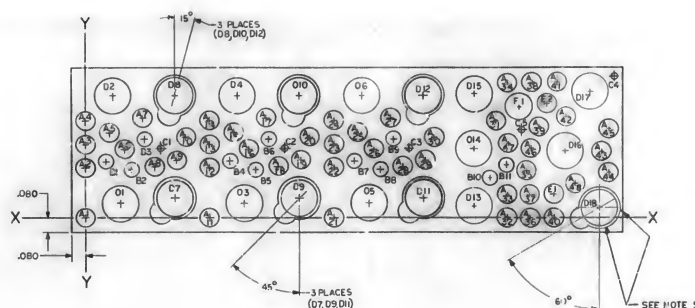
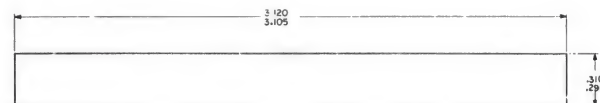
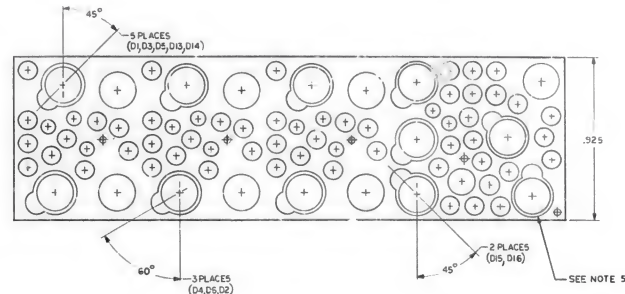
2.000
PHOTO REF DIM.

- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY. DIMENSIONAL STABILITY SHALL NOT EXCEED .001 INCH PER INCH
 3. C.U. TO WITHIN .010 OF TRIMLINE
 4. M.A.C. MASTER PATTERN POSITIVE FILM TO DIMENSIONS SHOWN
 5. MATERIAL: FILM .008/.008 PER L-F-240, TYPE 3B, CLASS 2, STYLE 1A
 6. .045/.050 DIA PUNCH ALL HOLES

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES DO NOT SCALE THIS DRAWING DATE: 11/17/64 APPROVAL: [Signature] BY: [Signature]		MIL INSTRUMENTATION LAB HOUSTON, TEXAS	
MATERIAL 1003173 1003400 NEXT ASST USED ON APPLICATION		MANNED SPACECRAFT CENTER HOUSTON, TEXAS INSULATOR PHOTOGRAPHIC MASTER DRIVER SERVICE MODULE JUGA DRAWING NO 1004263 SCALE 4/1 WT SHEET 1 OF 1	

HOLE IDENT	X BASIC DIM.	Y BASIC DIM.	DIA	HOLE DIA	QTY
A1	.000	.000			
A2	.000	.280			
A3	.000	.410			
A4	.000	.545			
A5	.115	.480			
A6	.225	.385			
A7	.320	.560			
A8	.390	.285			
A9	.515	.320			
A10	.565	.450			
A11	.700	.000			
A12	.700	.280			
A13	.700	.410			
A14	.700	.545			
A15	.835	.480			
A16	.925	.385			
A17	1.020	.560			
A18	1.090	.285			
A19	1.215	.320			
A20	1.265	.450			
A21	1.400	.000			
A22	1.400	.280			
A23	1.400	.410			
A24	1.400	.545			
A25	1.535	.480			
A26	1.625	.385			
A27	1.720	.560			
A28	1.790	.285			
A29	1.915	.320			
A30	1.965	.450			
A31	2.310	.565			
A32	2.375	.000			
A33	2.375	.130			
A34	2.375	.765			
A35	2.485	.265			
A36	2.510	.000			
A37	2.595	.130			
A38	2.515	.765			
A39	2.555	.515			
A40	2.640	.000			
A41	2.660	.765			
A42	2.710	.570			
A43	2.910	.380			
A44	2.950	.255			
A45	2.950	.505			
A46	2.510	.390			
A47	2.380	.420			
A48	2.760	.180			
B1	.115	.315			
B2	.260	.270			
B3	.335	.440			
B4	.4915	.315			
B5	.360	.270			
B6	1.035	.440			
B7	1.515	.315			
B8	1.660	.270			
B9	1.735	.440			
B10	2.180	.225			
B11	2.370	.295			

HOLE IDENT	X BASIC DIM.	Y BASIC DIM.	DIA	HOLE DIA	QTY
C1	.425	.390			
C2	1.125	.390			
C3	1.825	.390			
C4	2.980	.800			
C5	2.455	.455			
D1	.195	.030			
D2	.155	.685			
D3	.895	.080			
D4	.855	.685			
D5	1.595	.080			
D6	1.555	.685			
D7	.505	.110			
D8	.505	.685			
D9	1.205	.110			
D10	1.205	.685			
D11	1.905	.110			
D12	1.905	.685			
D13	2.190	.065			
D14	2.190	.365			
D15	2.190	.700			
D16	2.705	.375			
D17	2.845	.710			
D18	2.895	.055			
E1	2.640	.135			
E2	2.600	.645			
F1	2.440	.225			



DETAIL A
 SCALE 1X
 "D" HOLES, 18 PLACES
 SEE TOP AND BOTTOM VIEWS FOR TAB ORIENTATION

- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. MATERIAL: PLASTIC ACRYLIC PER MIL-P-5425, FINISH B ALL MIL-P-5184 FINISH B
 3. TRUE POSITIONING AS SHOWN IN CHART
 4. BREAK ALL SHARP EDGES
 5. BREAKOUT ALLOWED BETWEEN COUNTERBORE OF HOLES D17 AND D18 AND EDGE OF BLOCK

QTY (REQ)	PART OR IDENTIFYING NO	DESCRIPTION OR IDENTIFYING NO	ITEM NO
LIST OF MATERIALS			
MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
HOLDER, COMPONENT STRAND GATE MODULE			
UNLESS OTHERWISE SPECIFIED FRACTIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ".005" ".3" "18"		NASA APPROVAL DATE 10/1/77 BY [Signature]	
1003466		NASA DRAWING NO 1004264	
NEXT ASSY USED ON		SCALE 1/1	
APPLICATION		SHEET 1 OF 1	

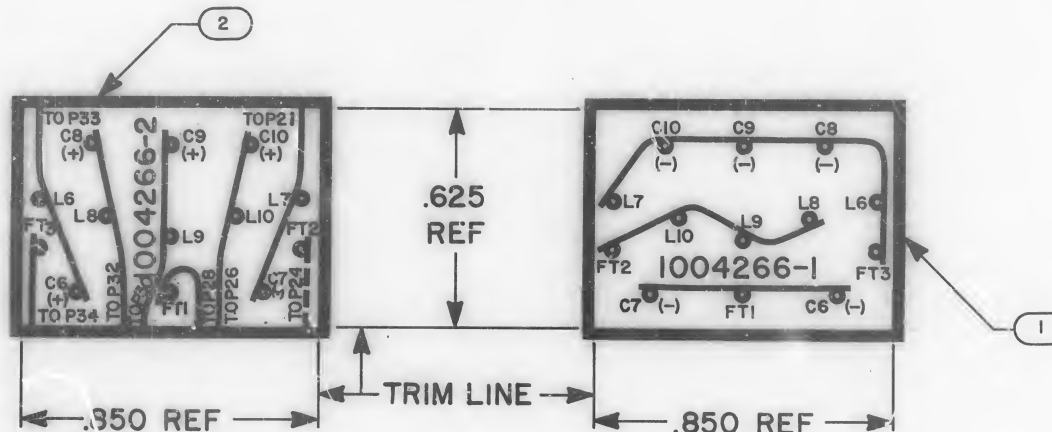
NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE DATA HEREIN, SPECIFICATIONS OR OTHER DATA IS NOT TO BE CONSIDERED AN ENDORSEMENT OR RECOMMENDATION, OR CONVEYANCE OF THE HOLDER OR ANY OTHER PERSON OR COMPANY, OR CONVEYANCE OF ANY RIGHT OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THEREIN.

1004266

REVISIONS 04/47

SYM DESCRIPTION DATE APPROVAL

±.002
2.000
PHOTO
REF
DIM.



±.002
2.000 PHOTO REF DIM.

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY. DIMENSIONAL STABILITY SHALL NOT EXCEED .001 INCH PER INCH
3. MATERIAL: FILM .006/.008 THICK PER L-F-340, TYPE IB, CLASS 2, STYLE IA
4. MAKE MASTER PATTERN POSITIVE FILMS TO DIMENSIONS SHOWN
5. CUT WITHIN .010 OF TRIM LINE
6. .045/.050 DIA PUNCH ALL HOLES

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON
		FRACTIONS DECIMALS ANGLES
		± ± ±
		DO NOT SCALE THIS DRAWING
		MATERIAL
		SEE NOTE 3
1003171		HEAT TREATMENT
NEXT ASSY	USED ON	FINAL FINISH
APPLICATION		

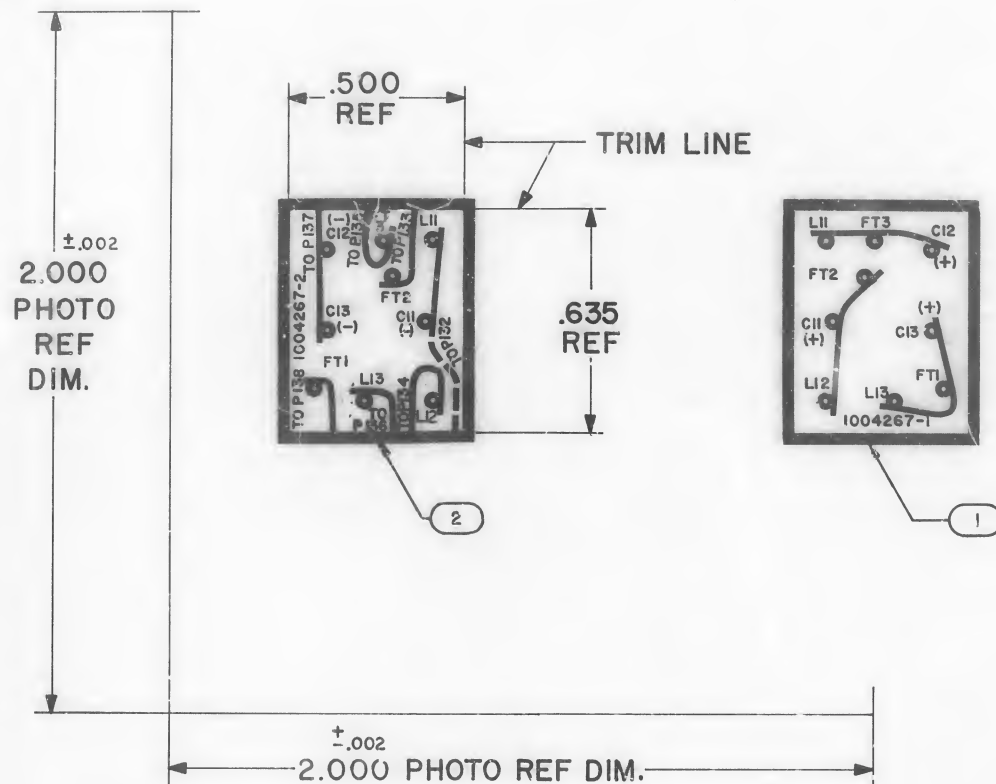
I	1004266-2	INSULATOR	2	
i	1004266-1	INSULATOR	1	
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.	
LIST OF MATERIALS				
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DWN. NO. CONTRACT		INSULATOR PHOTOGRAPHIC MASTER STRAND GATE MODULE		
DRAWN <i>W. J. Burt</i> DATE 9-9-63				
CHECKED <i>R. J. Langley</i> 12-10-63				
APPROVAL <i>W. J. Burt</i> 12-10-63				
APPROVAL <i>W. J. Burt</i>				
NASA APPROVAL <i>W. J. Burt</i> 12-10-63		CODE IDENT NO.	SIZE	NASA DRAWING NO.
MIT APPROVAL <i>W. J. Burt</i>			C	1004266
SCALE 4/1		WT	SHEET	OF

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY ISOLATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OMISSIONS, ERRORS, OR THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR NOT TO BE OBTAINED BY APPLICATION OR OTHERWISE AS IN ANY MANNER LICENSES THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO REPRODUCE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THEREOF.

1004267

REVISIONS 04147

SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 04741	11/15/63	<i>[Signature]</i>
B	REVISED PER TDRR 06430	3/16/64	<i>[Signature]</i>



NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY. DIMENSIONAL STABILITY SHALL NOT EXCEED .001 INCH PER INCH
3. CUT TO WITHIN .010 OF TRIMLINE
4. MAKE MASTER PATTERN POSITIVE FILMS TO DIMENSIONS SHOWN
5. MATERIAL: FILM.006/.008 THICK PER L-F-340, TYPE IB, CLASS 2, STYLE 1A
6. .045/.050 DIA PUNCH ALL HOLES

1	1004267-2	INSULATOR	2
1	1004267-1	INSULATOR	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN <i>[Signature]</i> DATE 9-6-63		INSULATOR	
CHECKED <i>[Signature]</i> 22 OCT 63		PHOTOGRAPHIC MASTER	
APPROVAL <i>[Signature]</i> 23 OCT 63		STRAND GATE MODULE, B31	
APPROVAL <i>[Signature]</i>		CODE IDENT NO.	SIZE
NASA APPROVAL <i>[Signature]</i> 10/2/63		—	C
MIT APPROVAL <i>[Signature]</i> 10/2/63		SCALE 4:1	WT
HEAT TREATMENT		NASA DRAWING NO.	
FINAL FINISH		1004267	
APPLICATION		SHEET 1 OF 1	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON		
FRACTIONS	DECIMALS	ANGLES
±	±	±
DO NOT SCALE THIS DRAWING		
MATERIAL		
SEE NOTE 5		
1003172	HEAT TREATMENT	
NEXT ASSY	USED ON	
FINAL FINISH		
APPLICATION		

± 002
- 2.000 PHOTO REF DIM.

- 3,080 PEF

.905 REF

✈-TRIM LINE

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MAT'L: FILM .006/008 THICK PER L-F-340, TYPE 1B, CLASS 2, STYLE 1A
3. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY. DIMENSIONAL STABILITY SHALL NOT EXCEED .001 INCH PER INCH
4. MAKE MASTER PATTERNS POSITIVE FILMS TO DIMENSIONS SHOWN
5. CUT WITHIN .010 OF TRIM LINE
6. \varnothing .045/.050 DIA PUNCH ALL HOLES

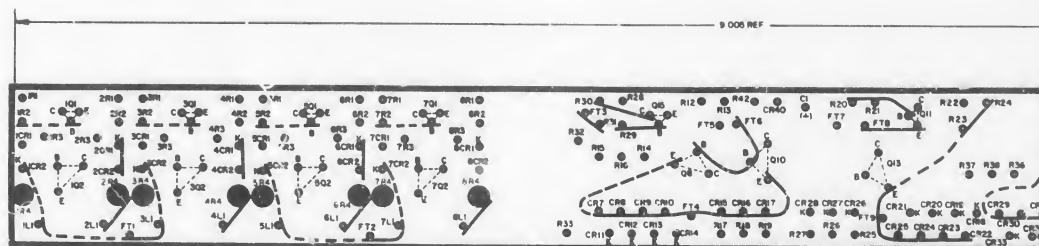
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRP 07269 DR D.R. Clement CHK am	3/6/69	W.C.

1	1004268-2	INSULATOR	2
1	1004268-1	INSULATOR	1
QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIN NO

LIST OF MATERIALS

M I T INSTRUMENTATION LAB CANNONVILLE MAIN	MANNED SPACECRAFT CENTER HOUSTON TEXAS
DWG NO 00000001	
DRAWN BY CHECKED APPROVAL APPROVAL	DATE 10/15/57 10/15/57 10/15/57
NASA APPROVAL	CODE IDEA* NO D
SIZE 1004268	NASA DRAWING NO 1004268
MIT APPROVAL	SHEET 1 OF 1

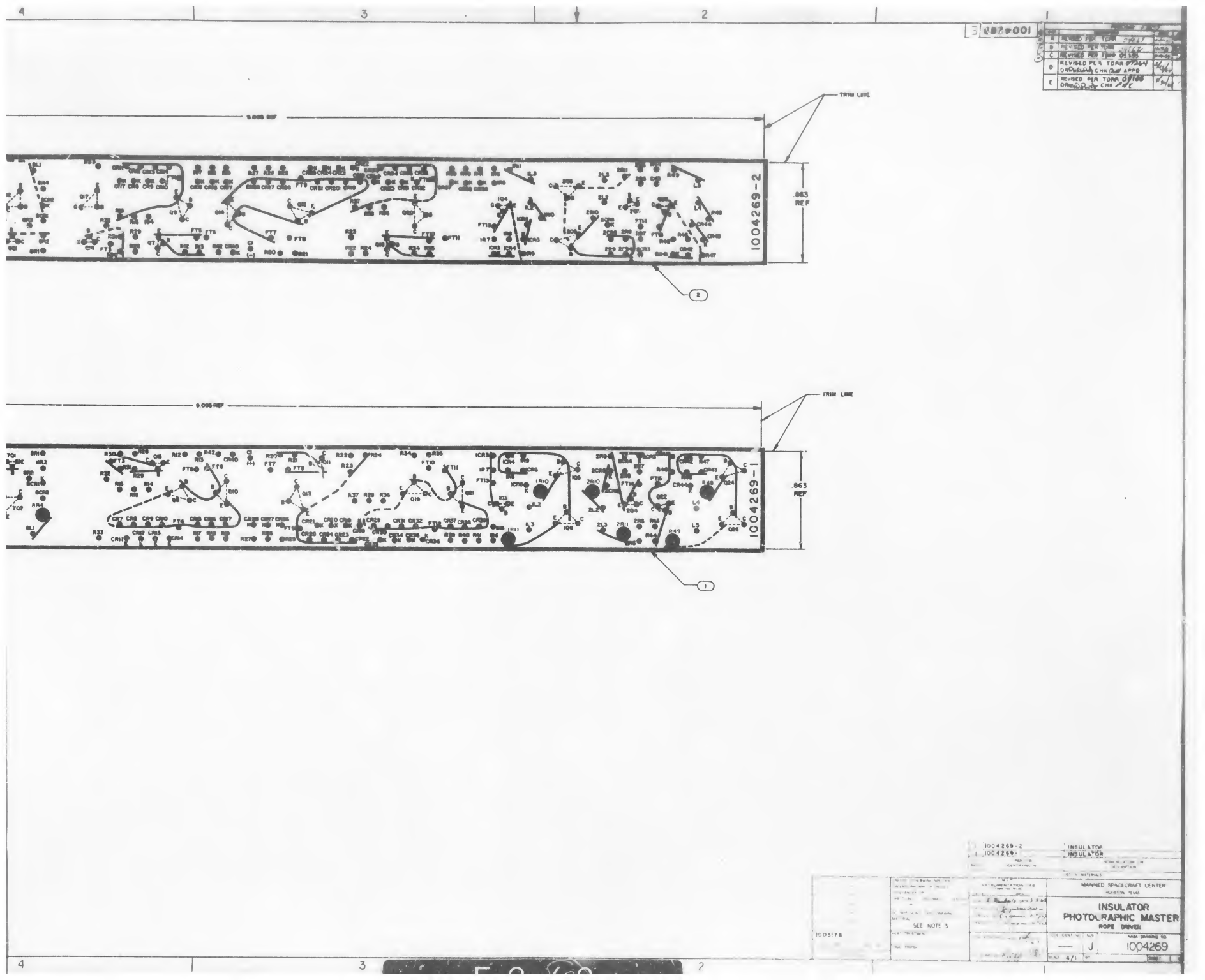
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES
	DO NOT SCALE THIS DRAWING MATERIAL
	SEE NOTE 2
1003166	HEAT TREATMENT
NEXT ASSY	USED ON
APPLICATION	FINAL FINISH



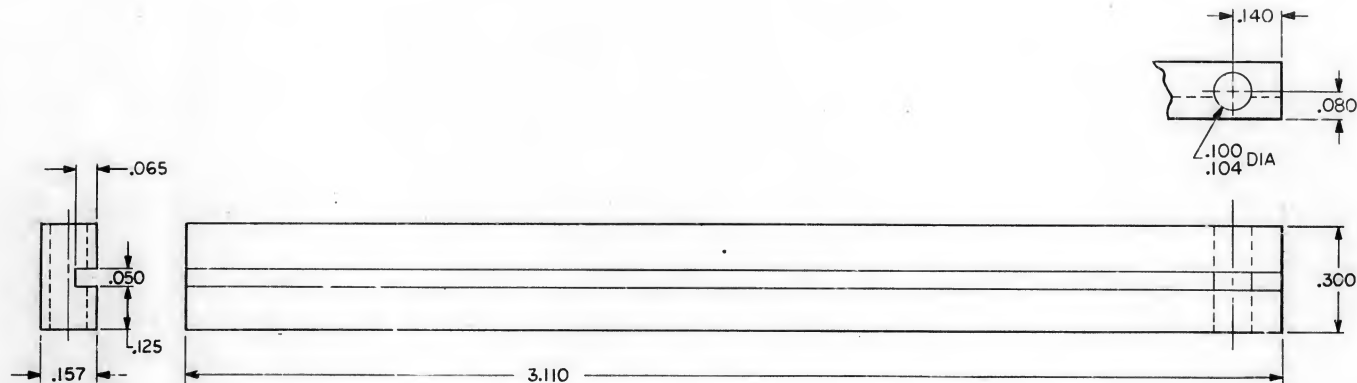
— 2.000 PHOTO REF DIM

NOTES

- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70357
 ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY PROCESS OR METHOD SHALL INSURE
 DIMENSIONAL STABILITY. DIMENSIONAL STABILITY SHALL NOT EXCEED .001 INCH PER INCH
 MATERIAL. FILM .006/.008 THICK PER L F-340, TYPE IB, CLASS 2, STYLE 1A
 MAKE MATTER PATTERN POSITIVE FILMS TO DIMENSIONS SHOWN
 CUT TO WITHIN .001 OF .TRIM LINE.
 .045/.000 DIA PUNCH
 .111/.121 DIA PUNCH



NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OF MATERIAL, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED AS IMPLICATION OR ENDORSEMENT AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVERTING ANY RIGHTS OR PERMISSIONS TO MANUFACTURE, USE, OR SELL ANY INVENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.



NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MAT'L: PLASTIC, ACRYLIC PER MIL-P-5425 FINISH A
3. BREAK SHARP EDGES

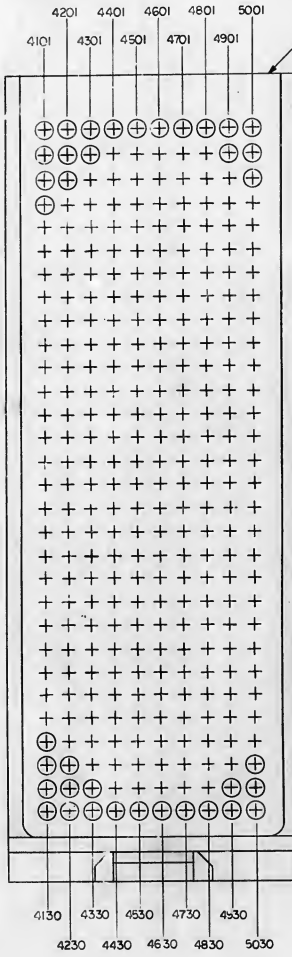
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON
FRACTIONS	DECIMALS	ANGLES
±	±.005	±
DO NOT SCALE THIS DRAWING		
MATERIAL		
SEE NOTE 2		
HEAT TREATMENT		
FINAL FINISH		
1003182		
NEXT ASSY	USED ON	
APPLICATION		

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.		
LIST OF MATERIALS					
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
DRAWN <i>R. Butler</i> DATE <i>16 SEP 63</i>		BLOCK, SPACER STRAND GATE MODULE			
CHECKED <i>C. H. Hays</i> DATE <i>22 OCT 63</i>					
APPROVAL <i>W. J. Hays</i> DATE <i>23 OCT 63</i>					
NASA APPROVAL <i>W. J. Hays</i> DATE <i>10 FEB 64</i>		CODE IDENT NO.	NASA DRAWING NO.		
MIT APPROVAL <i>W. J. Hays</i> DATE <i>24 OCT 63</i>		SIZE C	1004270		
SCALE 4/1		WT	SHEET 1 OF 1		

NOTES - THIS DRAWING IS A SUMMARY OF THE INFORMATION CONTAINED IN THE DATA SHEET. IT IS NOT TO BE USED AS A SUBSTITUTE FOR THE DATA SHEET. THE DATA SHEET IS THE SOURCE OF THE INFORMATION CONTAINED IN THIS DRAWING. THE DATA SHEET IS THE SOURCE OF THE INFORMATION CONTAINED IN THIS DRAWING. THE DATA SHEET IS THE SOURCE OF THE INFORMATION CONTAINED IN THIS DRAWING.

REVISIONS			
BY	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TORR 08506	11-13-63	W. J. R. 304

GUIDANCE COMPUTER INTERFACE CONNECTOR 05A4JS, VIEWED FROM THE PIN SIDE OF THE MALE CONNECTOR, OR THE WIRING SIDE OF THE FEMALE



4101	4201 167	4301 167	4401 169	4501 169	4601	4701 170	4801 170	4901 168	5001 168
4102	4202 239	4302 001 S	4402 126 S	4502 126 R	4602	4702 149 S	4802 149 R	4902 150 S	5002 150 R
4103	4203 239	4303 001 R	4403 127 S	4503 127 R	4603 166	4703 151 S	4803 151 R	4903 152 S	5003 152 R
4104	4204 240	4304 171	4404 128 S	4504 128 R	4604 175	4704 153 S	4804 153 R	4904 154 S	5004 154 R
4105	4205 241	4305 172	4405 129 S	4505 129 R	4605 176	4705 155 S	4805 155 R	4905 156 S	5005 156 R
4106	4206 243	4306 173	4406 130 S	4506 130 R	4606 177	4706 114 S	4806 114 R	4906 115 S	5006 115 R
4107	4207 139 S	4307 139 R	4407 131 S	4507 131 R	4607 101	4707 116 S	4807 116 R	4907 117 S	5007 117 R
4108	4208 140 S	4308 140 R	4408 145 S	4508 145 R	4608 164	4708 102	4808 103	4908 104	5008 105
4109	4209 142 S	4309 142 R	4409 146 S	4509 146 R	4609 178	4709 106	4809 107	4909 158	5009 159
4110	4210 143 S	4310 143 R	4410 147 S	4510 147 R	4610 165	4710 160	4810 161	4910 162	5010 163
4111	4211 144 S	4311 144 R	4411 148 S	4511 148 R	4611 181 note 4	4711 214	4811 215	4911 216	5011 217
4112	4212 118 S	4312 118 R	4412 119 S	4512 119 R	4612 026 C	4712 218	4812 219	4912 220	5012 221
4113	4213 120 S	4313 120 R	4413 121 S	4513 121 R	4613 026 S	4713 222	4813 223	4913 224	5013 225
4114	4214 122 S	4314 122 R	4414 123 S	4514 123 R	4614 245	4714 226	4814 227	4914 228	5014 229
4115	4215 124 S	4315 124 R	4415 132 S	4515 132 R	4615 179	4715 230	4815 231	4915 232	5015 233
4116	4216 133 S	4316 133 R	4416 134 S	4516 134 R	4616 157 C	4716 234	4816 235	4916 236	5016 237
4117	4217 135 S	4317 135 R	4417 136 S	4517 136 R	4617 157 S	4717 212	4817 238	4917 242	5017 244
4118	4218 137 S	4318 137 R	4418 136 S	4518 138 R	4618 330 note 2	4718 201	4818 202	4918 203	5018 204
4119	4219 141 S	4319 141 R	4419 108 S	4519 108 R	4619 250	4719 205	4819 206	4919 207	5019 208
4120	4220 109 S	4320 109 R	4420 110 S	4520 110 R	4620 434 note 3	4720 209	4820 210	4920 246	5020 211
4121	4221 111 S	4321 111 R	4421 112 S	4521 112 R	4621 213	4721 027 S	4821 027 R	4921 028 S	5021 028 R
4122	4222 004 S	4322 004 R	4422 005 S	4522 005 R	4622 040 S	4722 029 S	4822 029 R	4922 030 S	5022 030 R
4123	4223 006 S	4323 006 R	4423 007 S	4523 007 R	4623 040 R	4723 031 S	4823 031 R	4923 032 S	5023 032 R
4124	4224 014 S	4324 014 R	4424 015 S	4524 015 R	4624 247	4724 033 S	4824 033 R	4924 035 S	5024 033 R
4125 CNSHLD	4225 016 S	4325 016 R	4425 024 S	4525 024 R	4625 017 S	4725 036 S	4825 036 R	4925 037 S	5025 037 R
4126 CNTRL 1	4226 025 S	4326 025 R	4426 008 S	4526 008 R	4626 017 R	4726 038 S	4826 038 R	4926 039 S	5026 039 R
4127 CNTRL 2	4227 009 S	4327 009 R	4427 010 S	4527 010 R	4627 248	4727 041 S	4827 041 R	4927 042 S	5027 042 R
4128 MT SHLD	4228 011 S	4328 011 R	4428 012 S	4528 012 R	4628 050 S	4728 043 S	4828 043 R	4928 044 S	5028 044 R
4129 MTHI	4229 013 S	4329 013 R	4429 054 S	4529 054 R	4629 050 R	4729 045 S	4829 045 R	4929 046 S	5029 046 R
4130 MTLO	4230 056 S	4330 056 R	4430 057 S	4530 057 R	4630 249	4730 047 S	4830 047 R	4930 048 S	5030 048 R

- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. THE RETURNS OF ALL SIGNALS TO THE NAV DSKY ARE COMMONED UP AND BROUGHT IN ON PIN NO. 4618
 3. THE RETURNS OF ALL SIGNALS TO THE MAIN DSKY ARE COMMONED UP AND BROUGHT IN ON PIN NO. 4620
 4. THE RETURNS OF THE MODE SWITCHING SIGNALS ARE COMMONED UP AND BROUGHT IN ON PIN NO. 4611

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
M.I.T. INSTRUMENTATION LAB CAMBRIDGE, MASS.			
MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
DRAWN BY <i>J. Gaudy</i> DATE <i>7-19-63</i>			
CHECKED BY <i>W. J. R. 304</i> DATE <i>7-19-63</i>			
APPROVAL <i>W. J. R. 304</i> DATE <i>7-19-63</i>			
NASA APPROVAL <i>W. J. R. 304</i> DATE <i>7-19-63</i>			
MIT APPROVAL <i>W. J. R. 304</i> DATE <i>7-19-63</i>			
SIGNAL PIN ASSIGNMENT AGC INTERFACE CONNECTOR			
NASA DRAWING NO. 1004271			
CODE IDENT. NO. D			
SCALE			
SHEET OF			



1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED
BY MIL-D-70327
2. MAT'L: PLASTIC SHEET, LAMINATED PER MIL-P-18177 TYPE GEB
3. REMOVE BURRS AND BREAK SHARP EDGES
4. MARK ¹⁰⁰_{D80} HIGH WHITE PER ND1002019
5. MARK ¹⁷⁰₁₅₀ HIGH WHITE PER ND1002019
6. MARK ¹³⁵₁₁₅ HIGH WHITE PER ND1002019

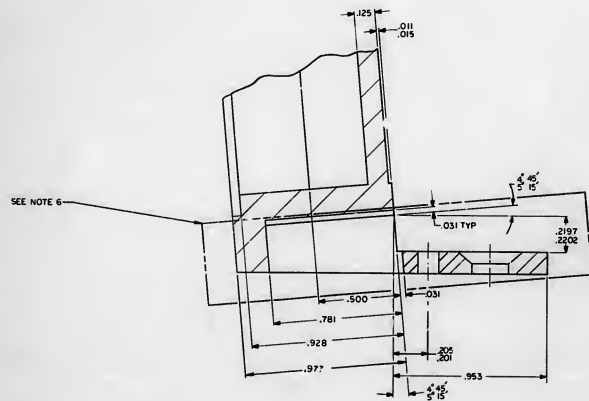
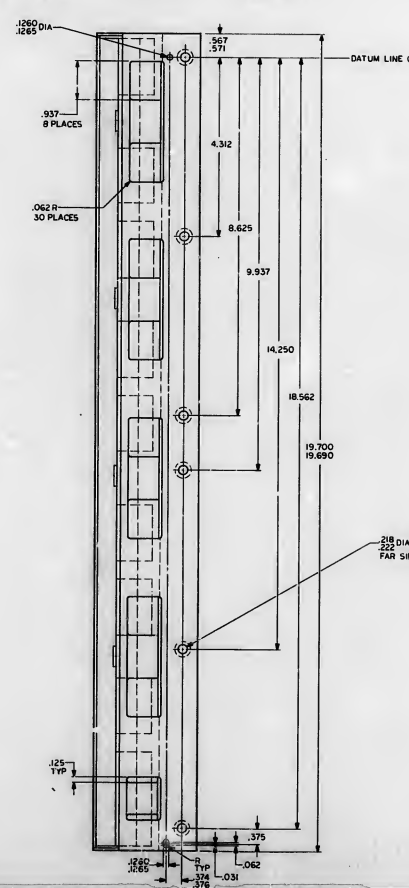
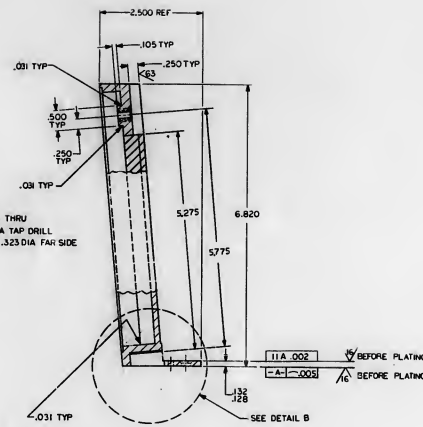
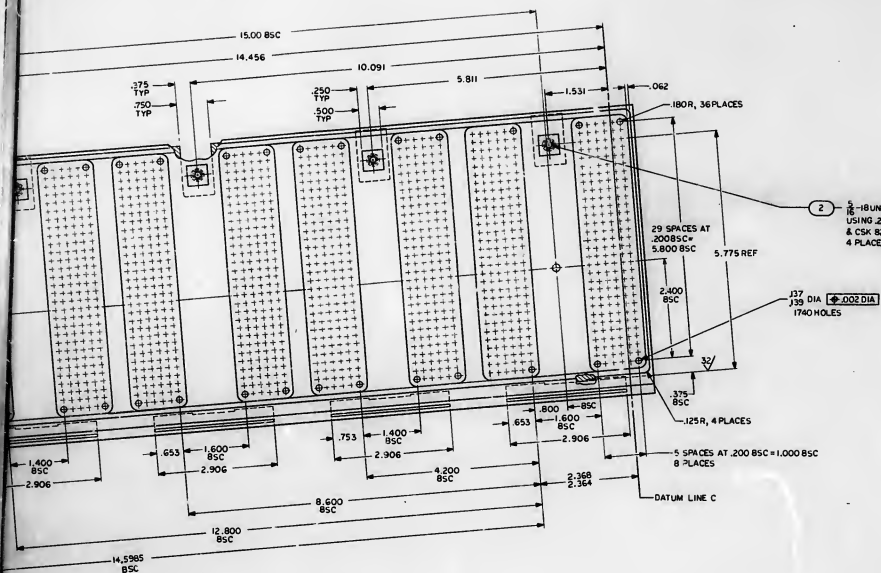
QTY REQD		PART #		NOMENCLATURE OR DESCRIPTION		F1	
IDENTIFYING NO.						F2	
LIST OF MATERIALS							
M/T INSTRUMENTATION LAB				MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES X.XX = .005 X.XX = 1/16 X.XX = 1/32 X.XX = 1/64 X.XX = 1/128 X.XX = 1/256 X.XX = 1/512 X.XX = 1/1024 X.XX = 1/2048 X.XX = 1/4096 X.XX = 1/8192 X.XX = 1/16384 X.XX = 1/32768 X.XX = 1/65536 X.XX = 1/131072 X.XX = 1/262144 X.XX = 1/524288 X.XX = 1/1048576 X.XX = 1/2097152 X.XX = 1/4194304 X.XX = 1/8388608 X.XX = 1/16777216 X.XX = 1/33554432 X.XX = 1/67108864 X.XX = 1/134217728 X.XX = 1/268435456 X.XX = 1/536870912 X.XX = 1/1073741824 X.XX = 1/2147483648 X.XX = 1/4294967296 X.XX = 1/8589934592 X.XX = 1/17179869184 X.XX = 1/34359738368 X.XX = 1/68719476736 X.XX = 1/137438953472 X.XX = 1/274877906944 X.XX = 1/549755813888 X.XX = 1/1099511627776 X.XX = 1/2199023255552 X.XX = 1/4398046511104 X.XX = 1/8796093022208 X.XX = 1/17592186044416 X.XX = 1/35184372088832 X.XX = 1/70368744177664 X.XX = 1/140737488355328 X.XX = 1/281474976710656 X.XX = 1/562949953421312 X.XX = 1/1125899906842624 X.XX = 1/2251799813685248 X.XX = 1/4503599627370496 X.XX = 1/9007199254740992 X.XX = 1/18014398509481984 X.XX = 1/36028797018963968 X.XX = 1/72057594037927936 X.XX = 1/144115188075855872 X.XX = 1/288230376151711744 X.XX = 1/576460752303423488 X.XX = 1/1152921504606846976 X.XX = 1/2305843009213693952 X.XX = 1/4611686018427387904 X.XX = 1/9223372036854775808 X.XX = 1/18446744073709551616 X.XX = 1/36893488147419103232 X.XX = 1/73786976294838206464 X.XX = 1/147573952589676412928 X.XX = 1/295147905179352825856 X.XX = 1/590295810358705651712 X.XX = 1/1180591620717411303424 X.XX = 1/2361183241434822606848 X.XX = 1/4722366482869645213696 X.XX = 1/9444732965739290427392 X.XX = 1/18889465931478580854784 X.XX = 1/37778931862957161709568 X.XX = 1/75557863725914323419136 X.XX = 1/151115727451828646838272 X.XX = 1/302231454903657293676544 X.XX = 1/604462909807314587353088 X.XX = 1/1208925819614629174706176 X.XX = 1/2417851639229258349412352 X.XX = 1/4835703278458516698824704 X.XX = 1/9671406556917033397649408 X.XX = 1/19342813113834066795298816 X.XX = 1/38685626227668133590597632 X.XX = 1/77371252455336267181195264 X.XX = 1/154742504910672534362390528 X.XX = 1/309485009821345068724781056 X.XX = 1/618970019642690137449562112 X.XX = 1/1237940039285380274899124224 X.XX = 1/2475880078570760549798248448 X.XX = 1/4951760157141521099596496896 X.XX = 1/9903520314283042199192993792 X.XX = 1/19807040628566084398385987584 X.XX = 1/39614081257132168796771975168 X.XX = 1/79228162514264337593543950336 X.XX = 1/158456325028528675187087900672 X.XX = 1/316912650057057350374175801344 X.XX = 1/633825300114114700748351602688 X.XX = 1/1267650600228229401496703205376 X.XX = 1/2535301200456458802993406410752 X.XX = 1/5070602400912917605986812821504 X.XX = 1/10141204801825835211973625643008 X.XX = 1/20282409603651670423947251286016 X.XX = 1/40564819207303340847894502572032 X.XX = 1/81129638414606681695789005144064 X.XX = 1/162259276829213363391578010288128 X.XX = 1/324518553658426726783156020576256 X.XX = 1/649037107316853453566312041152512 X.XX = 1/1298074214633706907132624082305024 X.XX = 1/2596148429267413814265248164610048 X.XX = 1/5192296858534827628530496329220096 X.XX = 1/10384593717069655257060992658440192 X.XX = 1/20769187434139310514121985316880384 X.XX = 1/41538374868278621028243970633760768 X.XX = 1/83076749736557242056487941267521536 X.XX = 1/166153499473114484112975882535043072 X.XX = 1/332306998946228968225951765070086144 X.XX = 1/664613997892457936451903530140172288 X.XX = 1/1329227995784915872903807060280344576 X.XX = 1/2658455991569831745807614120560689152 X.XX = 1/5316911983139663491615228241121378304 X.XX = 1/10633823966279326983230456482242756608 X.XX = 1/21267647932558653966460912964485513216 X.XX = 1/42535295865117307932921825928971026432 X.XX = 1/85070591730234615865843651857942052864 X.XX = 1/170141183460469231731687303715884105728 X.XX = 1/340282366920938463463374607431768211456 X.XX = 1/680564733841876926926749214863536422912 X.XX = 1/1361129467683753853853498429727072845824 X.XX = 1/2722258935367507707706996859454145691648 X.XX = 1/544451787073501541541399371890829							
PIN IDENTIFICATION BOARD				COMPUTER END			
NEXT ASSY		USED ON		NASA DRAWING NO.		1004273	
APPLICATION		FINAL FINISH		SCALE 1/1		E	
				M/T APPROVAL <i>W.H. 1/16/68</i>		INT 3	
				M/T APPROVAL <i>W.H. 1/16/68</i>		E	

REVISIONS 04147				
(N)	SYM	DESCRIPTION	DATE	APPROVAL
	A	REVISED PER TDR 08411 DR B. Jean CHK A.P.B. P. 2	4/7/64	HAC



1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAKE FROM UO4201
3. FINISH: ANODIZE PER MIL-M-45202, TYPE II, CLASS C
4. UNLESS OTHERWISE SPECIFIED ¹²⁵ALL OVER
5. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII .005/.020
6. REMOVE ALL BURRS AND BREAK SHARP EDGES .005-.015

QTY REQD		PART OR IDENTIFYING NO		NOMENCLATURE OR DESCRIPTION		FIN NO	
				LIST OF MATERIALS			
		M I T EXPERIMENTAL LAB CHICAGO, ILL.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
		DRAWING NO. <u>1003175</u> DATE <u>10/1/58</u> CHICAGO, ILL. <u>10/1/58</u> APPROVAL <u>[Signature]</u> 33-4576		HEADER HOUSING STRAND GATE MODULE			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS = .XXX-.005 DO NOT SCALE THIS DRAWING MATERIAL SEE NOTE 2		ANGLES MIT APPROVAL <u>[Signature]</u>		CODE IDENT NO. <u>1004274</u> SIZE <u>D</u> NASA DRAWING NO. <u>1004274</u>			
1003175 NEXT ASSY USED ON APPLICATION		HEAT TREATMENT FINAL FINISH SEE NOTE 3		MIT APPROVAL <u>[Signature]</u>			
				SCALE 2/1 WT _____ SHEET 1 OF 1			



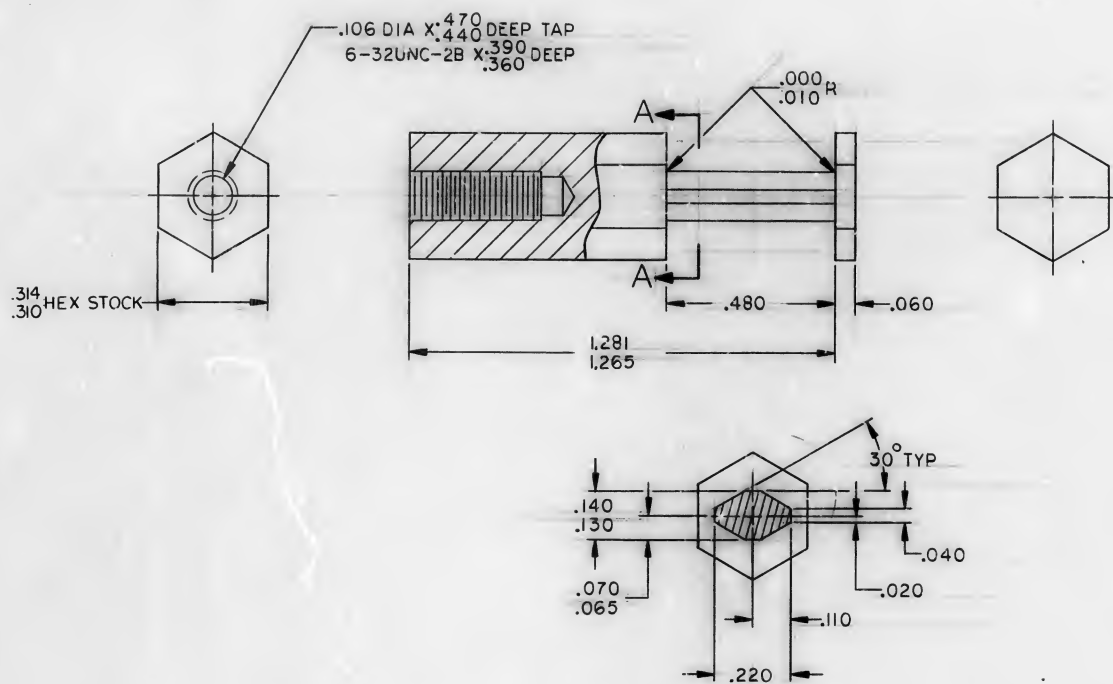
DETAIL B
SCALE 4/1

4	NA5139CA-3L	INSECT SELF-LOCKING	2
1	10A275-I	CONNECTOR, COMPUTER END	1
QTY REQD	PART OR IDENTIFYING NO	NONFUNCTIONAL OR DESCRIPTION	FIN NO
LIST OF MATERIALS			
1-117 INVESTIGATION LAB Columbia, Md DATE: <i>10/2/65</i> CHECKED: <i>W. J. Jones</i> APPROVAL: <i>W. J. Jones</i> APPROVAL: <i>W. J. Jones</i>		MANNED SPACECRAFT CENTER HOUSTON, TEXAS CONNECTOR, COMPUTER END	
NAME APPROVAL: <i>W. J. Jones</i> DATE: <i>10/2/65</i>	CODE IDENT NO	SIZE	NAME ENDING NO
		J	1004275

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A SPECIFICALLY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OBLIGATION OF INDEMNITY AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY MANNER SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONFIRMING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

1004276

REVISIONS 03649			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 04008	10-16-63	W.K.



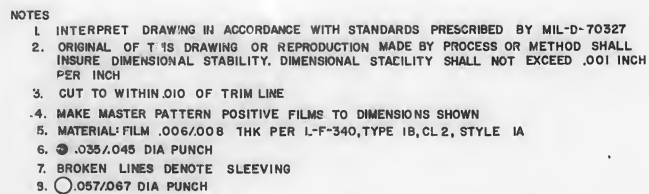
SECTION A-A

NOTES

- 1 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
- 2 MATL: CRES PER QQ-S-763, CLASS 303, COND A
- 3 REMOVE BURRS AND BREAK SHARP EDGES
- 4 125/ FINISH ALL OVER
- 5 PASSIVATE PER MIL-F-14072, FINISH E300, TYPE I.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN Ed Powers DATE 30 Sept 63		SPACER, SPECIAL	
CHECKED [Signature] 2 OCT 63		G+N HARNESS CONN PLATE	
APPROVAL [Signature]		CODE IDENT NO. SIZE NASA DRAWING NO.	
NASA APPROVAL [Signature] 30-3-63		C 1004276	
MIT APPROVAL [Signature] 30 Oct 63		SCALE 4/1 WT SHEET 1 OF 1	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON		
FRACTIONS	DECIMALS	ANGLES
±	±.005	±1°
DO NOT SCALE THIS DRAWING		
MATERIAL		
SEE NOTE 2		
HEAT TREATMENT		
FINAL FINISH		
SEE NOTE 5		
1003155	APPLICATION	
NEXT ASSY	USED ON	



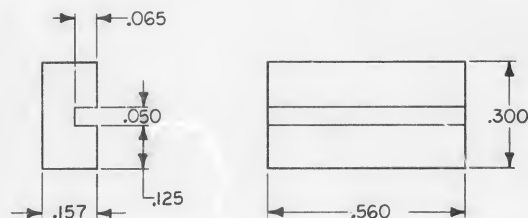
QTY REQD	PART OF IDENTIFYING NO.	LIST OF MATERIALS		NOMENCLATURE OR DESCRIPTION	FINE NO.
M I T INSTRUMENTATION LAB CAMBRIDGE, MASS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
ES	DWG NO CONTRACT	INSULATOR			
	DRAWN <i>W. J. Jones</i> DATE <i>10/15/56</i>	CHECKED			
	APPROVAL <i>W. J. Jones</i> DATE <i>10/15/56</i>	PHOTOGRAPHIC MASTER			
	APPROVAL <i>W. J. Jones</i>	CONTROL MODULE			
NASA APP-100, <i>Revised 11/1/56</i>		CDD IDENT NO.	SIZE	NASA DRAWING NO.	
XMT APPROVAL <i>W. J. Jones</i> DATE <i>11/1/56</i>			D	1004277	
		SCALE	4/1	SHEET	1 OF 1

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREIN HAS NO RESPONSIBILITY AND NO OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAME DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONFERRING ANY RIGHTS OR PERMISSION TO REPRODUCE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THEREIN.

1004279

REVISIONS 04147

SYM DESCRIPTION DATE APPROVAL

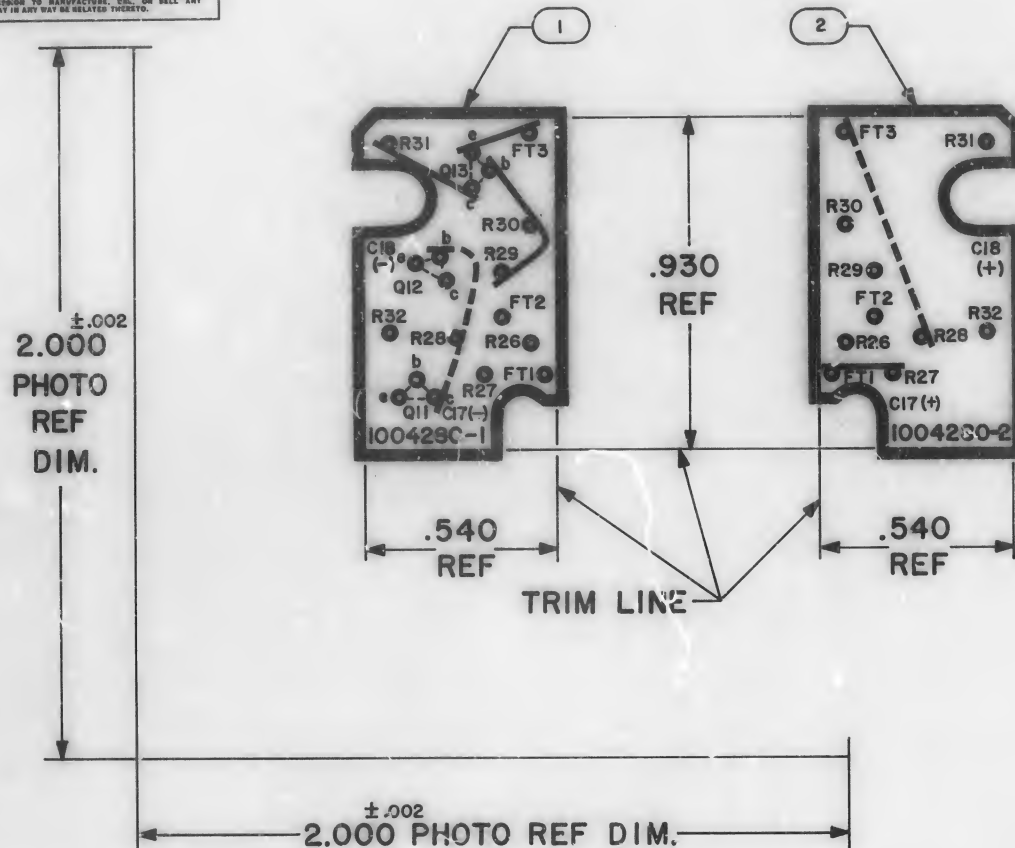


NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MAT'L: PLASTIC, ACRYLIC PER MIL-P-5425 FINISH A
3. BREAK SHARP EDGES

QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIND NO.
LIST OF MATERIALS						
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.				MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN <i>R. Butler</i> DATE <i>20 Oct 63</i>				BLOCK, SPACER STRAND GATE MODULE		
CHECKED <i>R. Butler</i> DATE <i>22 Oct 63</i>						
APPROVAL <i>W. H. Turner</i> DATE <i>23 Oct 63</i>						
APPROVAL <i>W. H. Turner</i>						
1003167		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± .005 ±		NASA APPROVAL <i>W. H. Turner</i> DATE <i>24 Oct 63</i>		NASA DRAWING NO. 1004279
NEXT ASSY		HEAT TREATMENT		CODE IDENT N°		SIZE C
USED ON		FINAL FINISH		SCALE 4/1		WT
APPLICATION				SHEET 1		OF 1

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NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY. DIMENSIONAL STABILITY SHALL NOT EXCEED .001 INCH PER INCH
3. MATERIAL: FILM .006/.008 THICK PER L-F-340, TYPE IB, CLASS 2, STYLE 1A
4. MAKE MASTER PATTERN POSITIVE FILMS TO DIMENSIONS SHOWN
5. CUT WITHIN .010 OF TRIM LINE
6. \varnothing .045/.050 DIA PUNCH ALL HOLES

I	1004280-2	INSULATOR	2
I	1004280-1	INSULATOR	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

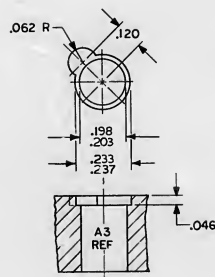
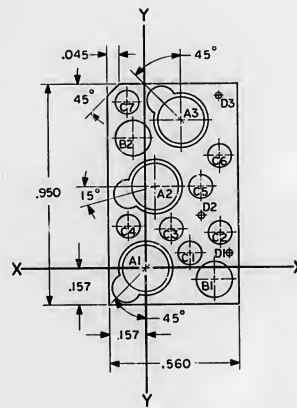
LIST OF MATERIALS	
INST. INT. LAB CAMBRIDGE, MASS. DWS NO. CONTRACT	MANNED SPACECRAFT CENTER HOUSTON, TEXAS

DRAWN <i>Ed. Sullivan</i> DATE <i>Oct 2, 63</i> CHECKED <i>Ed. Sullivan</i> DATE <i>22 Oct 63</i> APPROVAL <i>Ed. Sullivan</i> DATE <i>23 Oct 63</i> APPROVAL <i>[Signature]</i>	INSULATOR PHOTOGRAPHIC MASTER STRAND GATE MODULE
NASA APPROVAL <i>[Signature]</i>	CODE IDENT NO. <i>C</i> SIZE <i>C</i> NASA DRAWING NO. <i>1004280</i>
MIT APPROVAL <i>[Signature]</i>	SCALE <i>4/1</i> WT <i>1</i> SHEET <i>1</i> OF <i>1</i>

NOTICE - WHEN GOVERNMENT SPECIFICATIONS OR OTHER DATA ARE USED IN THE DESIGN OF THIS DRAWING, THE DESIGNER SHALL BE RESPONSIBLE FOR THE CORRECT INTERPRETATION OF THE SAME. THE GOVERNMENT SHALL NOT BE RESPONSIBLE FOR THE CORRECT INTERPRETATION OF THE SAME. THE GOVERNMENT SHALL NOT BE RESPONSIBLE FOR THE CORRECT INTERPRETATION OF THE SAME.

REVISIONS 07/77			
SYM	DESCRIPTION	DATE	APPROVAL

HOLE IDENT	BASIC X DIM	BASIC Y DIM	DIA	HOLE DIA	QTY
A1	.000	.000	.006	SEE DETAIL A	3
A2	.043	.350			
A3	.158	.635			
B1	.295	-.052	.006	.153 .157	2
B2	-.050	-.558			
C1	.190	.062	.006	.100 .104	7
C2	.320	.150			
C3	.110	.165			
C4	-.075	.180			
C5	.240	.350			
C6	.320	.480			
C7	-.075	.712			
D1	.360	.062	.006	.023 .027	3
D2	.240	.222			
D3	.320	.740			



DETAIL A
SCALE 4/1
3 PLACES

- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. MATL: PLASTIC, ACRYLIC PER MIL-P-5425, FINISH A
 3. TRUE POSITION AS SHOWN IN CHART
 4. BREAK ALL SHARP EDGES

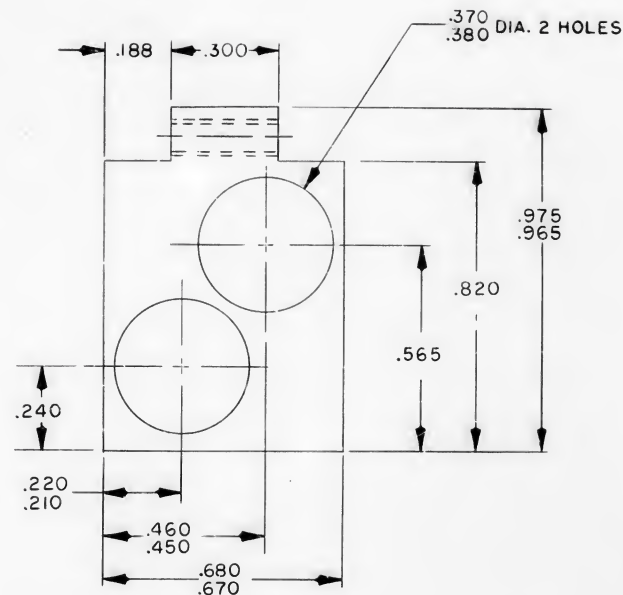
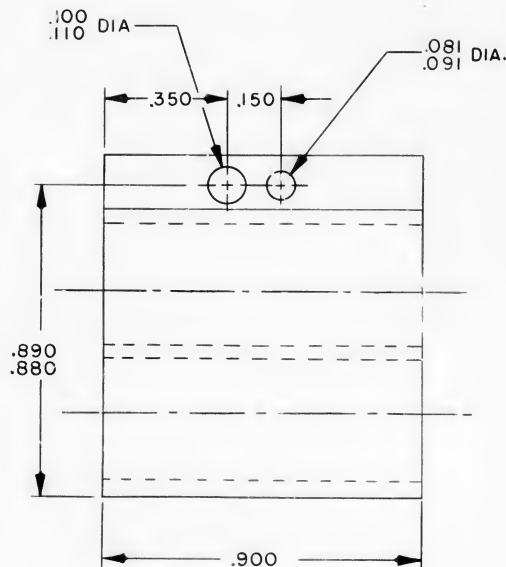
QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIND NO.
LIST OF MATERIALS						
MIT INSTRUMENTATION LAB		MANNED SPACECRAFT CENTER				
CHANGING NAME		HOUSTON, TEXAS				
DRAWN: <i>[Signature]</i> DATE: 02-11-82		HOLDER, COMPONENT STRAND GATE MODULE				
CHECKED: <i>[Signature]</i> DATE: 02-11-82						
APPROVAL: <i>[Signature]</i> DATE: 02-11-82						
DO NOT SCALE THIS DRAWING		SEE NOTE 2				
MATERIAL		HEAT TREATMENT				
1003183		NEXT ASSY USED ON				
APPLICATION		FINAL FINISH				
NASA APPROVAL: <i>[Signature]</i> DATE: 02-11-82		MIT APPROVAL: <i>[Signature]</i> DATE: 02-11-82		CODE IDENT NO. SIZE		NASA DRAWING NO.
				D		1004281
				SCALE 4/1		SHEET 1 OF 1

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY INACCURACIES, OMISSIONS, AND THE FACT THAT THE GOVERNMENT HAS MADE FORMULATIONS, PERMISSIBLE, OR IN ANY WAY SUPPLIED THE BASIC DIMENSIONS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSES THE HOLDER OR ANY OTHER PERSON IN COMPLETING, OR CONVEYING ANY RIGHTS OR PERMISSIONS TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

1004283

REVISIONS 07670

SYM	DESCRIPTION	DATE	APPROVAL



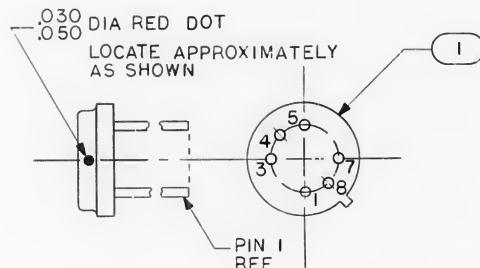
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MAT'L: PLASTIC ACRYLIC PER MIL-P-5425 FINISH B ALT; MIL-P-8184 FINISH B
3. BREAK SHARP EDGES

QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIND NO.	
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.							
MANNED SPACECRAFT CENTER HOUSTON, TEXAS							
HOLDER, COMPONENT STRAND GATE MODULE							
DRAWN <i>J. B. [unclear]</i> DATE 3/1/64		CHECKED <i>J. C. [unclear]</i> 1/1/64		APPROVAL <i>E. C. [unclear]</i> 2/2/64		NASA DRAWING NO. 1004283	
1003206		1003167		NASA APPROVAL <i>[unclear]</i> 9/1/64		SCALE 4/1	
NEXT ASSY		USED ON		MIT APPROVAL <i>W. [unclear]</i> 8/2/64		SHEET 1 OF 1	
APPLICATION		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± # ± .010 ± #		HEAT TREATMENT		WT	
		DO NOT SCALE THIS DRAWING MATERIAL		FINAL FINISH			
		SEE NOTE 2					

4 3 2 1

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORWARDED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS AN AUTHORITY LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.



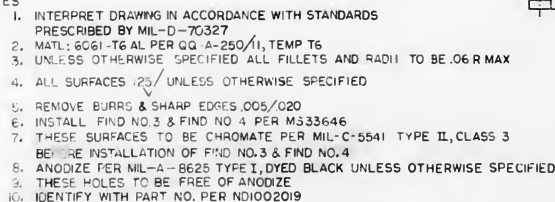
GENERAL REQUIREMENT

UPON COMPLETION OF ALL REQUIREMENTS AS SPECIFIED IN ND 1002238, THE NOR-GATES FROM LOTS WHICH QUALIFY FOR FLIGHT HARDWARE UNDER THE PROVISIONS OF ND1002238 SHALL BE MARKED IN RED AS INDICATED IN THIS DOCUMENT.

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. IDENTIFY PER ND1002019
3. MATERIAL: MAKE FROM FIND NO.1

1	1006771	MICRO-NOR GATE (TO 47 SIZE)		1
QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS				
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN: <i>Adams Jr.</i> 10 DEC 64		MICRO-NOR GATE (TO 47) (FLIGHT QUALIFIED)		
CHECKED: _____				
APPROVED: _____				
APPROVED: <i>Edson C Hall</i> 14 DEC 64				
APPROVED: <i>W. J. Gaffner</i> 23 DEC 64		CODE IDENT NO.	SIZE	DRAWING NO.
MIT			C	1004300
APPROVED: <i>W. J. Gaffner</i> 12 DEC 64		DATE	SCALE 5/1	SHEET 1 OF 1
MSC				

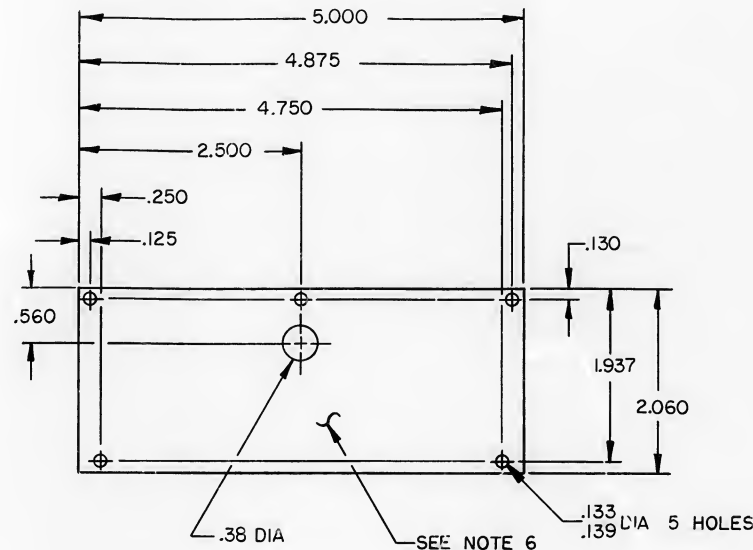


MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		LIST OF MATERIALS	
DRAWN BY <i>J. J. J.</i> 29.11.66		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
CHECKED BY <i>J. J. J.</i> 29.11.66		FRAME G & N FAILURE DETECT	
APPROVED BY <i>J. J. J.</i> 29.11.66			
APPROVED			
APPROVED BY <i>J. J. J.</i> 29.11.66		CODE IDENT NO.	DRAWING NO.
MIT		80230	1004315
APPROVED BY <i>J. J. J.</i> 29.11.66		D	
APPROVED BY <i>J. J. J.</i> 29.11.66		SCALE 1/1	SHEET 1 OF 1

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS: $\frac{1}{2}$ DECIMALS # \pm 0.01 DO NOT SCALE THIS DRAWING		MIT INSTRUMENTATION LAE CAMBRIDGE, MASS		LIST OF MATERIALS MARINE SPACECRAFT CENTER HOUSTON, TEXAS	
		MATERIAL		DRAWN BY <i>W. J. Rafter</i> 29 JUL 68 CHECKED BY <i>W. J. Rafter</i> <i>W. J. Rafter</i> APPROVED BY <i>W. J. Rafter</i> APPROVED		FRAME G & N FAILURE DETECT	
1003220		SEE NOTE 2		APPROVED BY <i>W. J. Rafter</i> <i>W. J. Rafter</i>		CODE IDENT NO. 80230	DRAWING NO. 1004315
NEXT ASSY USED ON				APPROVED BY <i>W. J. Rafter</i> <i>W. J. Rafter</i>		SIZE D	
APPLICATION				APPROVED BY <i>W. J. Rafter</i> <i>W. J. Rafter</i>		SCALE 1/1	SHEET 1 OF 1

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY DELAYATION, WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY MANNER SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE RECEIVED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHT OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS				
SYM	ZONE	DESCRIPTION	DR	CHK
A		REPLACE REV - WITH CHANGES PER TDRR 2155B		8/17/65



NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: 6061-T6 AL PER QQ-A-250/11 TEMP 6, .062 THK
3. REMOVE BURRS AND SHARP EDGES .005/.020
4. IDENTIFY WITH DRAWING NO. AND REVISION PER ND1002019
5. ANODIZE PER MIL-A-8625 TYPE I, DYED BLACK
6. CHROMATE SURFACE PER MIL-C-5541 TYPE II, CLASS 3

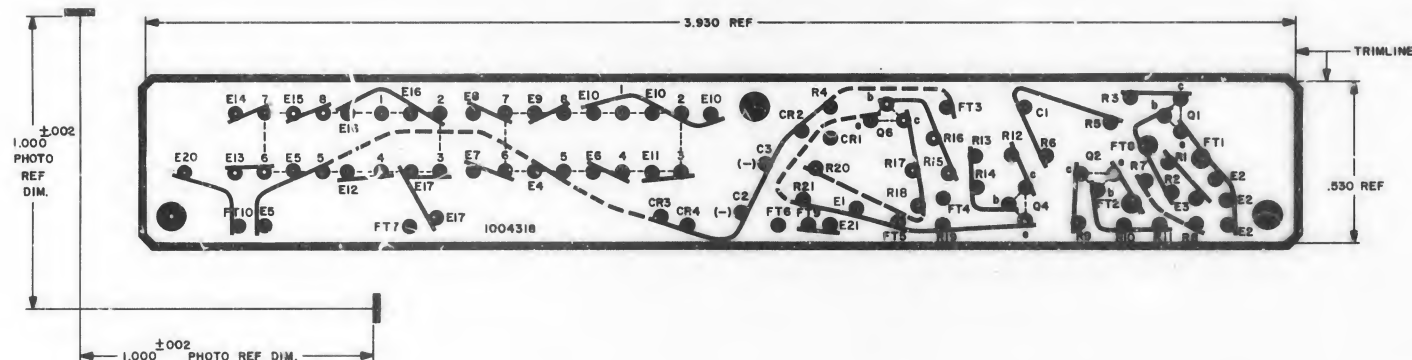
(A) REPLACES REV - WITH CHANGE

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ f RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS, DECIMALS, ANGLES $\pm .005$ DO NOT SCALE THIS DRAWING
		MATERIAL
1003220		SEE NOTE 2
NEXT ASSY	USED ON	
APPLICATION		

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN <i>J. D. Darnall</i> 23 Nov 64		COVER, TOP G & N FAILURE DETECT	
CHECKED <i>E. F. B. B. B.</i> 30 Jul 65			
APPROVED <i>Robert Hopkins</i> 30 Jul 65			
APPROVED			
APPROVED MIT	<i>W. J. Puffer</i> <i>Reing</i>	CODE IDENT NO. 80230	SIZE C
APPROVED MSC	<i>W. J. Puffer</i> <i>W. J. Puffer</i>	DRAWING NO. 1004316	
DATE		SCALE 1/1	SHEET 1 OF 1

[illegible]

REVISIONS 20407						
SVN	ZONE	DESCRIPTION	DR	CHR	DATE	APPROVED
(M) A		REVISED PER TORR 21345	RB2	CC	4/16/05	R.H. [Signature]
B		REVISED PER TORR 22459	W.B.	W.B.	4/16/05	[Signature]



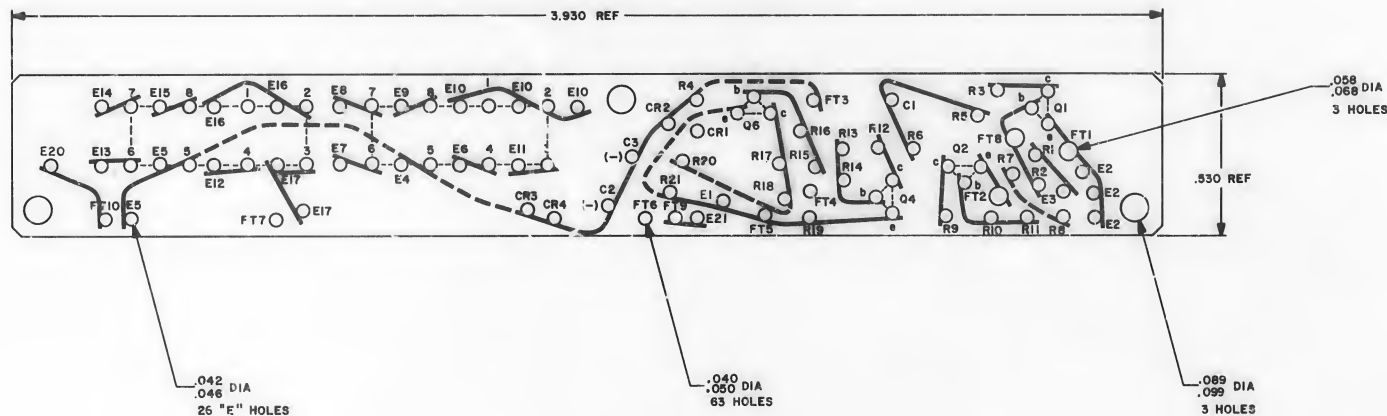
NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY A PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY
3. MAKE MASTER PATTERN POSITIVE FILM TO DIMENSIONS SHOWN
4. CUT TO WITHIN .010 OF TRIMLINE

			CITY MEMO	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIBER NO.
LIST OF MATERIALS							
				MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm \pm \pm DO NOT SCALE THE DRAWING				MIT INSTRUMENTATION LAB CAMBRIDGE, MASS			
				DRAWN BY <u>Sgt. Fournier</u>	BY <u>67-65</u>	PHOTOGRAPHIC MASTER WIRING BOARD, A G & N FAILURE DETECT	
				CHECKED BY <u>R. B. ...</u>	DATE <u>10-25-65</u>		
				APPROVED _____			
				APPROVED BY <u>Sgt. Bell</u>	DATE <u>10-25-65</u>		
MATERIAL							
1004318							
NEXT ASSY		USED ON		APPROVED BY <u>H. G. ...</u>		CODE IDENT NO	DRAWING NO
				BY <u>67-65</u>		80230 D	1004317
APPLICATION				APPROVED BY <u>[Signature]</u>	DATE <u>10/26</u>		
				APPROVED BY <u>[Signature]</u>	DATE <u>10/26</u>		
				SCALE $\frac{X}{1}$			
						SHEET	OF

NOTES: WHEN SUBMITTING ORIGINAL SPECIFICATIONS, THE USER SHALL
 1. PROVIDE A COMPLETE LIST OF ALL DIMENSIONS AND TOLERANCES
 2. PROVIDE A COMPLETE LIST OF ALL MATERIALS AND FINISHES
 3. PROVIDE A COMPLETE LIST OF ALL TESTS AND INSPECTIONS
 4. PROVIDE A COMPLETE LIST OF ALL PARTS AND SUBASSEMBLIES
 5. PROVIDE A COMPLETE LIST OF ALL DRAWINGS AND DOCUMENTS
 6. PROVIDE A COMPLETE LIST OF ALL REVISIONS AND CHANGES
 7. PROVIDE A COMPLETE LIST OF ALL APPROVALS AND SIGNATURES
 8. PROVIDE A COMPLETE LIST OF ALL DATES AND TIMES

REVISIONS							
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED	
A		REVISED PER TDRR 21345	200	200	200	200	200
B		REVISED PER TDRR 22459	200	200	200	200	200



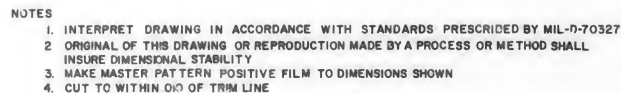
NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: PLASTIC SHEET .031 THICK PER MIL-P-188177 TYPE GEE
3. PREPARE BOARD FOR PHOTOGRAPHY PER ND 1002133
4. MARK BLACK CHARACTERS PER ND1002019
5. BROKEN LINE DENOTES SLEEVING
6. IDENTIFY WITH DRAWING NO. AND REVISION PER ND1002019

REF: DRAWING NO. 1004317 FOR PHOTOGRAPHIC MASTER

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FINO NO.
LIST OF MATERIALS				
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS			MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN: <i>Ed. P. 1004318</i>			WIRING BOARD, A	
CHECKED: <i>Ed. P. 1004318</i>			G. E. N. FAILURE DETECT	
APPROVED: <i>Ed. P. 1004318</i>			DRAWING NO. 1004318	
APPROVED: <i>Ed. P. 1004318</i>			CODE IDENT NO. 80230 D	
APPROVED: <i>Ed. P. 1004318</i>			SCALE 5/1	
APPROVED: <i>Ed. P. 1004318</i>			SHEET 1 OF 1	

SYN		ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A			REVISED PER TDRR 21345	R.A.S.	[Signature]	9/26/80	[Signature]
B			REVISED PER TDRR 22459	K.J.A.	[Signature]	10/1/80	[Signature]



QTY REQD		PART OR IDENTIFYING NO		MATERIAL OR DESCRIPTION		NOMENCLATURE OR DESCRIPTION		FIN NO	
LIST OF MATERIALS									
		M I T INSTRUMENTATION LAB		MANMED SPACECRAFT CENTER HOUSTON, TEXAS					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ RESISTOR VALUES ARE IN OHMS TOLERANCES IN FRACTIONS DECIMALS AND PER CENTS		DRAWN <i>J. J. [Signature]</i> <i>22-6000</i> CHECKED <i>[Signature]</i> <i>2-20-64</i> APPROVED <i>[Signature]</i> APPROVED <i>[Signature]</i> <i>27-10-64</i>		PHOTOGRAPHIC MASTER WIRING BOA-Q. B G&N FAILURE DETECT					
DO NOT SCALE THIS DRAWING MATERIAL		APPROVED M I T <i>[Signature]</i> <i>6-28-65</i> APPROVED <i>[Signature]</i> <i>6-28-65</i> APPROVED MSC <i>[Signature]</i> <i>DATE</i>		CODE ENTRY NO 80230		SIZE D		DRAWING NO. 1004319	
NEXT ASSY		USED ON		APPLICATION		SCALE 5/1		SHEET 1 OF 1	

REVISIONS 2047						
SYM	ZONE	DESCRIPTION	DR	CHK	A F	APPROVED
A		REVISED PER TDRR 21345	Red	8/2/05	8/2/05	[Signature]
B		REVISED PER TDRR 22459	Red	8/2/05	8/2/05	[Signature]

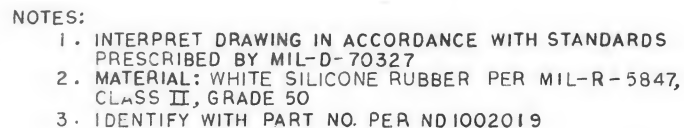


1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: PLASTIC SHEET .031 THICK PER MIL-P-18177 TYPE GEE
3. PREPARE BOARD FOR PHOTOGRAPHY PER ND100213
4. ~~MARK BLACK CHARACTERS PER ND1002019~~
5. BROWN LINES DENOTES SLEEVING
6. IDENTIFY WITH DRAWING NO. AND REVISION PER ND1002019

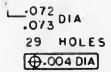
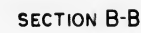
REF: DRAWING NO. 1004313 FOR
PHOTOGRAPHIC MASTER

QTY REQD		PART OR IDENTIFYING NO		MATERIAL OR NOTES		NOMENCLATURE OR DESCRIPTION		FIN NO	
LIST OF MATERIALS									
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS				MANNED SPACECRAFT CENTER HOUSTON, TEXAS					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES 2 2 2 DO NOT SCALE THIS DRAWING				DRAWN <i>J. R. King</i> <i>11/1/66</i> CHECKED <i>W. H. Smith</i> <i>11/1/66</i> APPROVED _____ APPROVED <i>Robert Hall</i> <i>11/1/66</i>					
MATERIAL IO03217				WIRING BOARD, B G&N FAILURE DETECT					
NEXT ASSY USED ON APPLICATION				APPROVED <i>W. H. Smith</i> <i>11/1/66</i> BY ITT		CODE IDENT NO 80230		SIZE D	
SEE NOTE 2				APPROVED <i>Robert Hall</i> <i>11/1/66</i> BY MSC		DATE SCALE 1/1		DRAWING NO. IO04320	
				SHEET		OF			

SYMBOL		REVISIONS		DATE		APPROVED	
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED	



				QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.
				LIST OF MATERIALS				
				MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
				DRAWN <i>A. Addington Jr.</i>	5 OCT 66			
				CHECKED <i>E. J. Angell</i>	1 OCT 66			
				APPROVED				
				APPROVED <i>Edgar C Hall</i>	21 Oct 66			
				APPROVED <i>[Signature]</i>		CODE IDENT NO.	SIZE	DRAWING NO.
				cc <i>a</i>	<i>P.C. [Signature]</i>	80230	C	1004322
				APPROVED MSC		SCALE 2/1		SHEET OF



- UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μ F
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING

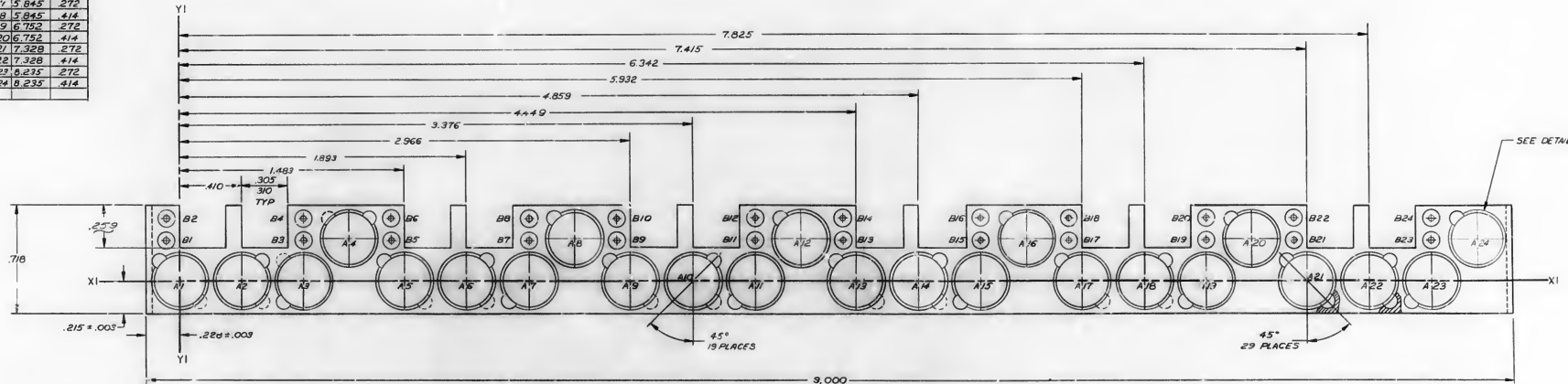
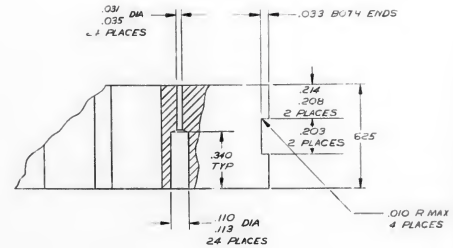
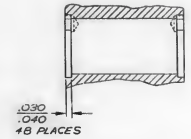
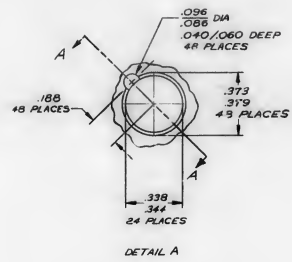
1004323

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1004500

REV	DESCRIPTION
1	REVISED PER TDR
2	REVISED PER TDR

HOLE IDENT	BASIC DIM.	BASIC DIM.
A1	.000	.000
A2	.410	.000
A3	.820	.000
A4	1.120	.280
A5	1.493	.000
A6	1.893	.000
A7	2.303	.000
A8	2.603	.380
A9	2.966	.000
A10	3.376	.000
A11	3.786	.000
A12	4.086	.280
A13	4.449	.000
A14	4.859	.000
A15	5.269	.000
A16	5.569	.280
A17	5.932	.000
A18	6.342	.000
A19	6.752	.000
A20	7.052	.280
A21	7.415	.000
A22	7.825	.000
A23	8.235	.000
A24	8.535	.280
B1	.087	.272
B2	.087	.414
B3	.820	.272
B4	.820	.414
B5	1.396	.272
B6	1.396	.414
B7	2.303	.272
B8	2.303	.414
B9	2.879	.272
B10	2.879	.414
B11	3.786	.272
B12	3.786	.414
B13	4.362	.272
B14	4.362	.414
B15	5.269	.272
B16	5.269	.414
B17	5.845	.272
B18	5.845	.414
B19	6.752	.272
B20	6.752	.414
B21	7.328	.272
B22	7.328	.414
B23	8.235	.272
B24	8.235	.414



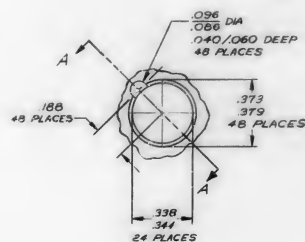
NOTES
1. MATL: PLASTIC CLEAR ACRYLIC PER MIL-P-8184 FINISH B, ALT. MIL-P-5425B FINISH B.
2. ALL HOLES (±.000 DIA)
3. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-7032T.
4. REMOVE ALL BURRS AND SHARP EDGES.

QTY REQD	PART OR IDENTIFYING NO.	REV	DATE	BY	CHKD	DATE	BY
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS				DECIMALS - 1/16"			
DO NOT SCALE THIS DRAWING				SEE NOTE 1			
MATERIAL				MATERIAL			
TREATMENT				TREATMENT			
HEAT TREAT				HEAT TREAT			
USED ON				USED ON			
APPLICATION				APPLICATION			

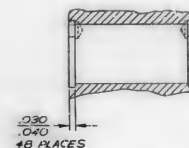
1004500B

INTERPRET (DRAWING) IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-7032T

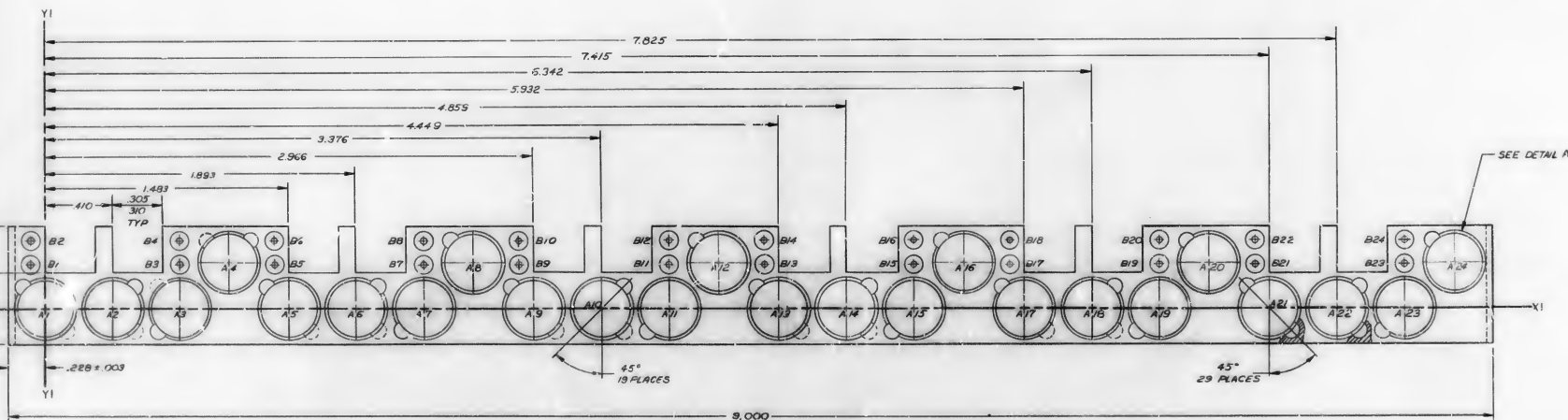
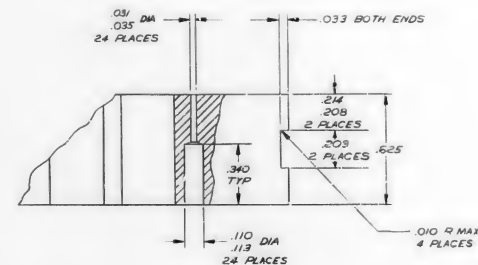
REVISIONS			
QTY	DESCRIPTION	DATE	APPROVED
A	REVISED PER TDR		
B	REVISED PER TDR 04459		



DETAIL A

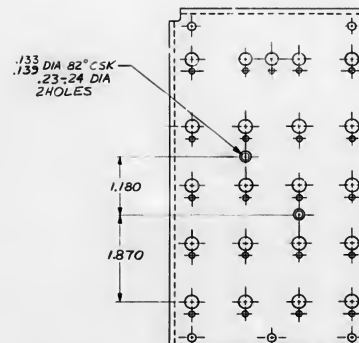
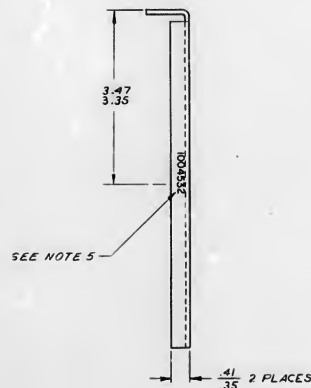
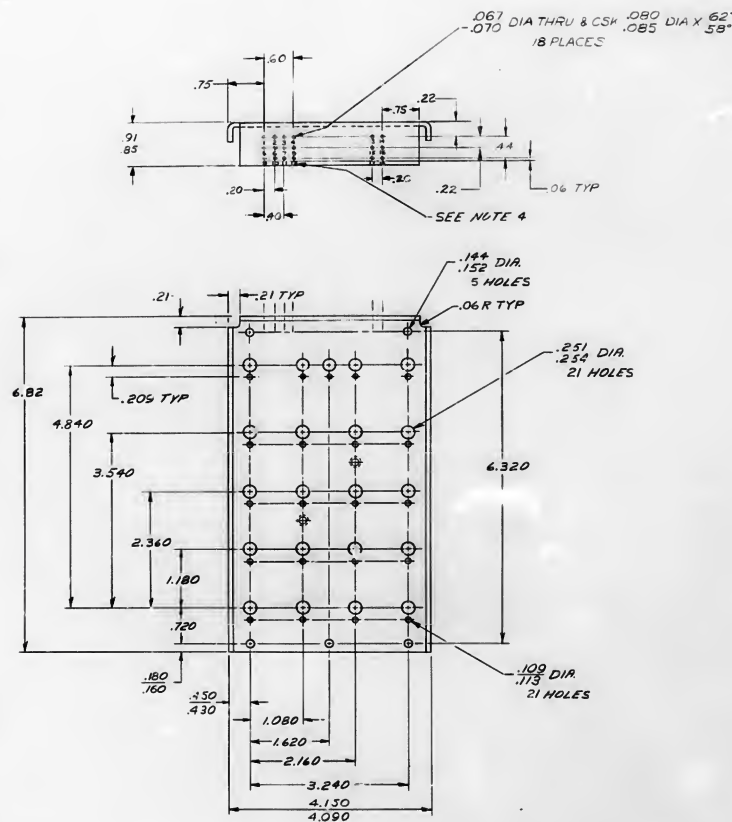


SECTION A-A



AR ACRYLIC FEP MIL-P-8184 FINISH B,
FINISH B.
[QIA]
FOLLOWING IN ACCORDANCE WITH STANDARDS
MIL-C 70327.
CORNERS AND SHARP EDGES

[illegible]



NOTE 3:

1. MATL: C90 THK AL 5052-H32
PER QQ 1-318, TEMPER H32
2. REMOVE BURRS & SHARP EDGES
3. ANODIZE PER MIL-A-8625 TYPE II DYED BLACK
4. MARK .CB HIGH WHITE PER ND100219 APPROX WHERE SHOWN
5. MARK .12 HIGH WHITE PER ND100219
6. ALL BEND R .08

QTY REQD		PAK # OR IDENTIFYING NO		NOMENCLATURE OR DESCRIPTION		FR NO	
		MIL INSTRUMENTATION LAB COLUMBIA, MISS		LIST OF MATERIALS			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON		DRAWN BY <i>2066</i>		MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
FRACTIONS \pm DECIMALS \pm ANGLES		CHECKED <i>2066</i>		PANEL, FRONT			
DO NOT SCALE THIS DRAWING		APPROVAL <i>[Signature]</i>		KEYBOARD MODULE			
MATERIAL		APPROVAL <i>[Signature]</i>		AG, DSKY NAVS & MAIN			
SEE NOTE 1		HASA APPROVAL <i>[Signature]</i>		CODE IDENT NO		SIZE	
1003007		MIT APPROVAL <i>[Signature]</i>		F		1004532	
NEXT ASY USED ON		MIT APPROVAL <i>[Signature]</i>		SCALE 1/1		SHEET 1 OF 1	
APPLICATION		FINAL TUSH		SEE NOTE 3			

4

3

2

1

NOTICE - THIS GOVERNMENT DRAWING, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITE GOVERNMENT PROCUREMENT OPERATION. THE UNITED STATES GOVERNMENT HEREBY INCURS NO RESPONSIBILITY FOR ANY AND ALL SUCH REPRODUCTION, AND THE FACT THAT THE GOVERNMENT SETS FORTH ANY SUCH REPRODUCTION, OR NOT TO BE REPRODUCED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVERTING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THEREOF.

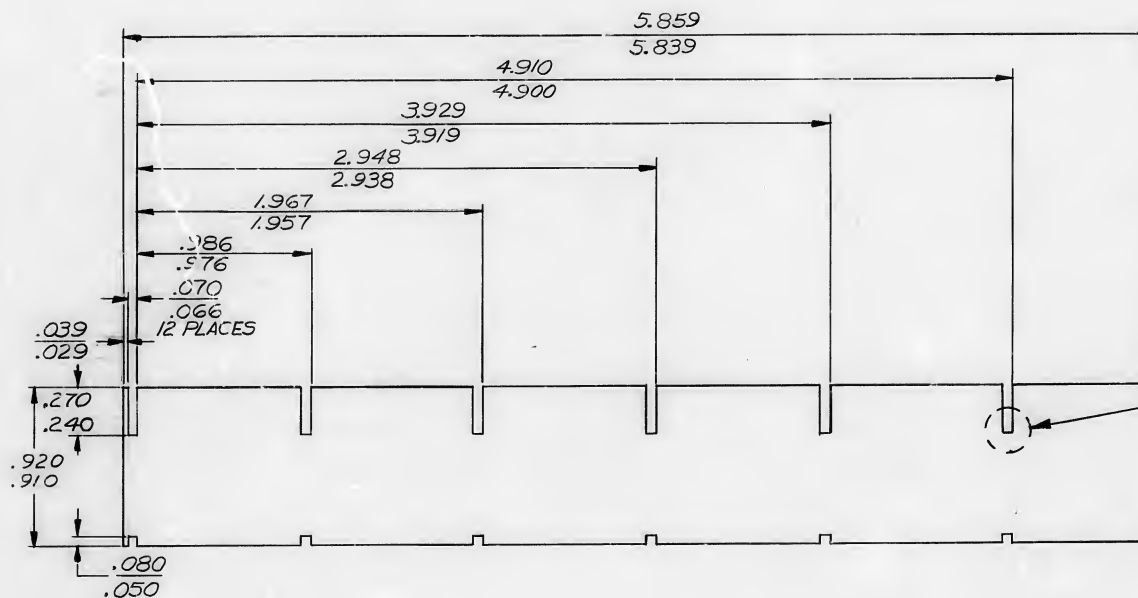
1004533

REVISIONS

REV	DESCRIPTION	DATE	APPROVAL
1	CLASS A RELEASE PER TDRR 0.291P	9/5/60	JM



DETAIL A
SCALE 10/1



NOTES

1. MATL: .015 THICK PLASTIC SHEET, PER MIL-P-18177 TYPE GEE, EXCEPT THICKNESS TOL $\pm .003$
2. REMOVE BURRS AND SHARP EDGES
3. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

MATTER

1003C98	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm \pm \pm DO NOT SCALE THIS DRAWING MATERIAL SEE NOTE 1 HEAT TREATMENT NONE FINAL FINISH NONE
NEXT ASSY	USED ON
APPLICATION	

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN <i>Ben Bennett</i> DATE 20 AUG 63 CHECKED <i>R. J. Smith</i> 26 AUG 63 APPROVAL <i>J. H. Smith</i> 21 AUG 63 APPROVAL <i>J. H. Smith</i> 5 SEP 63		STRIP, BACKING RELAY MODULE ASSEMBLY	
NASA APPROVAL <i>J. H. Smith</i> 9/5/63	CODE IDENT NO.	SIZE C	NASA DRAWING NO. 1004533
MIT APPROVAL <i>J. H. Smith</i> 9/5/63	SCALE 2/1	WT	SHEET 1 OF 1

4

3

2

1

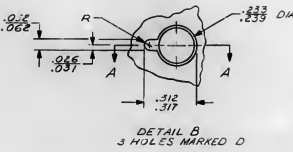
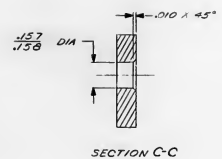
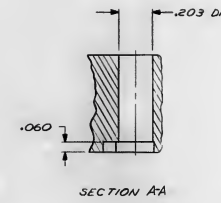
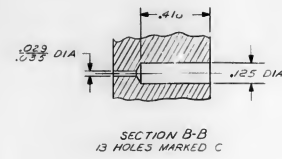
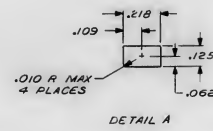
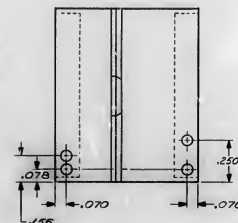
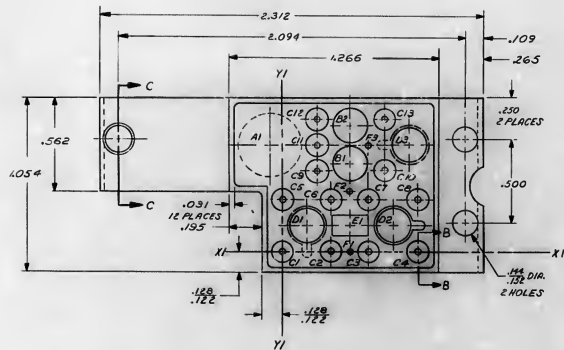
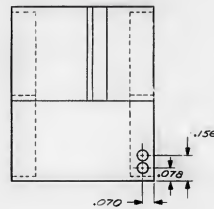
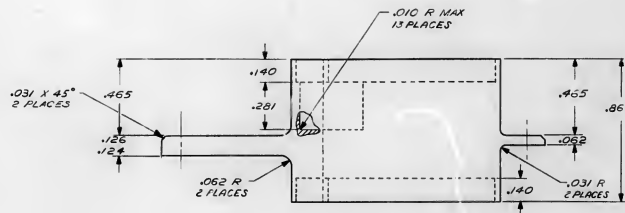
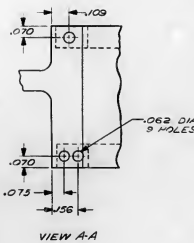
[illegible]

HOLE IDENT	XI BASIC DIA.	YI BASIC DIA.	Ø DIA	HOLE DIA
A1	.070	.630	.010	.375
E1	.414	.532		.104
B2	.414	.766		.210
C1	.000	.000		
C2	.297	.000		
C3	.524	.000		
C4	.852	.000		
C5	.000	.313		
C6	.297	.313		
C7	.524	.313		
C8	.852	.313		
C9	.211	.292		
C10	.513	.292		
C11	.211	.650		
C12	.211	.805		
C13	.618	.805		
D1	.149	.156		
D2	.672	.156		
D3	.756	.156		
E1	.414	.156		
E2	.414	.000		
E3	.524	.650	.010	.033

SEE SECTION B-B

SEE DETAIL B

SEE DETAIL A



1. MATERIAL: G-10 PLASTIC SHEET PER MIL-P-18177 TYPE GEE
2. REMOVE SHARP EDGES

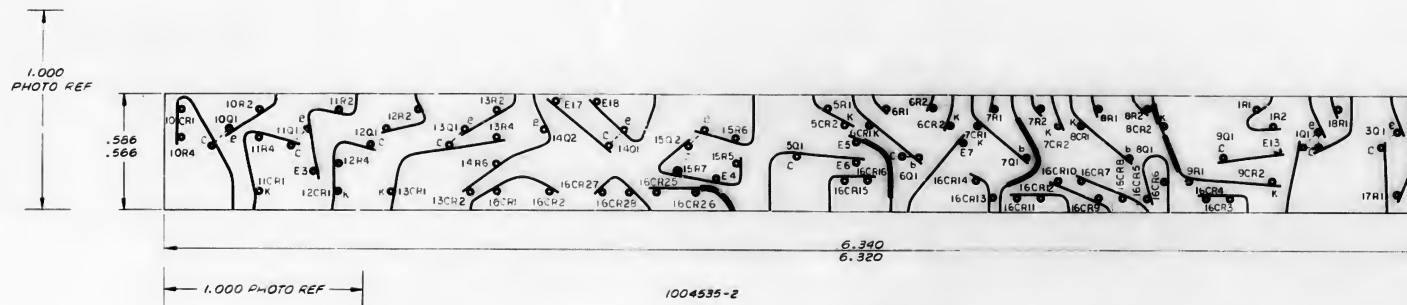
QTY	PART OR IDENTIFYING NO.	DESCRIPTION	DATE	APPROVED
1		CLASS A RELEASE PER TDAR 25,35		

QTY		PART OR IDENTIFYING NO.		DESCRIPTION		DATE		APPROVED	
1				CLASS A RELEASE PER TDAR 25,35					

QTY		PART OR IDENTIFYING NO.		DESCRIPTION		DATE		APPROVED	
1				CLASS A RELEASE PER TDAR 25,35					

QTY		PART OR IDENTIFYING NO.		DESCRIPTION		DATE		APPROVED	
1				CLASS A RELEASE PER TDAR 25,35					

REVIEWS 83621			
SYS#	DESCRIPTION	DATE	APPROVED
A	REVISED PER TDR 04923	11-24-98	AK
B	REVISED PER TDR 05778	1-24-99	AK
C	REVISED PER TDR 07498	11/1/98	AK
	DR COUNCIL CHK A.H. Egan		



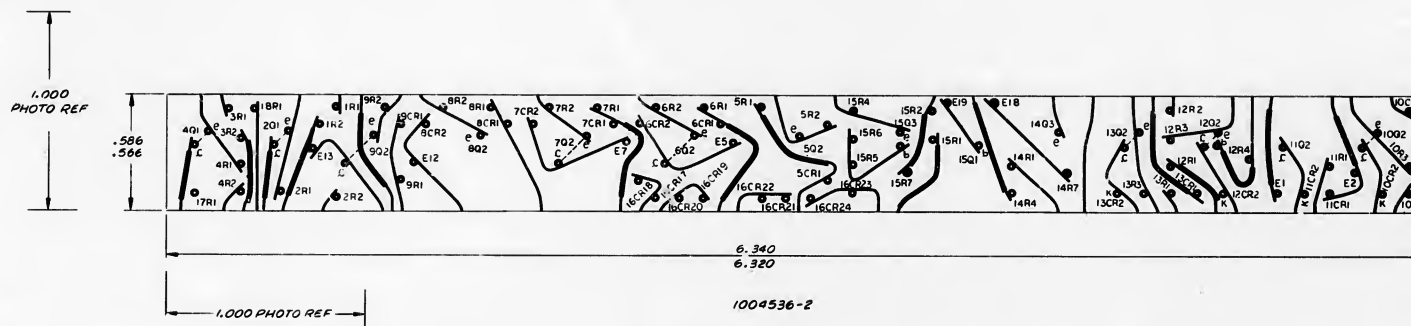
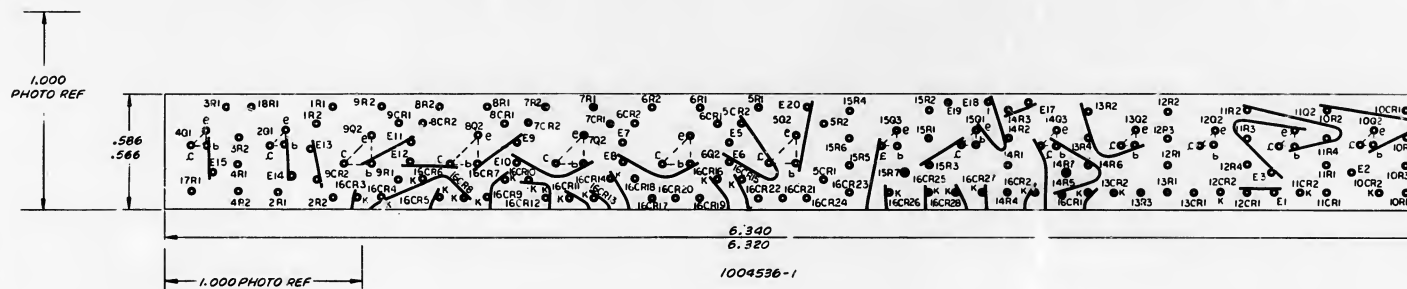
1. MATL. 006/000 L-THICK PLASTIC SHEET, SENSITIZED DIMENSIONALLY STABLE PER L-F-340 TYPE IB, CLASS II, STYLE IA
2. MAKE MASTER PATTERN POSITIVE FILMS TO DIMENSIONS SHOWN
3. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY. DIMENSIONAL VARIATIONS SHALL NOT EXCEED .001 INCH PER FOOT
4. Ø DENOTES .035 DIA HOLES THRU PLASTIC SHEET

QTY BTQ	PART OR IDENTIFYING NO	NOMINATIVE OR DESCRIPTION	(INO) NO
LIST OF MATERIALS			
BITY INSTRUMENTATION LAB Component Value DATE 10-18-73		MANNED SPACECRAFT CENTER HOUSTON TEXAS	
DRAWN BY CHECKED BY <i>R. E. Brown</i> APPROVED BY <i>W. E. Brown</i> DATE 10-18-73		INSULATOR DECODING MODULE AGC DSKY NAV & MAIN	
APPROVAL NASA APPROVAL <i>W. E. Brown</i> MIT APPROVAL <i>W. E. Brown</i> DATE 10-18-73		COOL IDENT NO F	SIZE NASA DRAWING NO 1004535
SCALE 1/1		SHEET 1 OF 1	

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70321

NOTICE - Some Government Agencies are required to provide information to the FBI. This information is used for the purpose of identifying and locating persons who are wanted for arrest. If you are a person who is wanted for arrest, you should inform the FBI of this fact. The Government may be notified of this fact by the FBI. If you are a person who is not wanted for arrest, you should inform the FBI of this fact. The Government may be notified of this fact by the FBI. If you are a person who is not wanted for arrest, you should inform the FBI of this fact. The Government may be notified of this fact by the FBI.

REVISIONS 03621				
BY	DESCRIPTION	DATE	APPROVED	
A	REVISED PER TDRR 04334	4/2/64	W.C. Calkins	
B	REVISED PER TDRR 05767	1-2-64	W.C. Calkins	
C	REVISED PER TDRR 07498 DR Calkins CHK A7498-1	4/2/64	W.C. Calkins	
D	REVISED PER TDRR 13114 DR Calkins CHK 13114	4/2/64	W.C. Calkins	



NOTES

1. MATL.:.006/008 THICK PLASTIC SHEET, SENSITIZED DIMENSIONALLY STABLE PER L-F-380 TYPE IB, CLASS II, STYLE IA
2. MAKE MASTER PATTERN POSITIVE FILMS TO DIMENSIONS SHOWN
3. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY. DIMENSIONAL VARIATIONS SHALL NOT EXCEED .001 INCH PER FOOT
4. Ø .008 DIA HOLED THRU PLASTIC SHEET

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

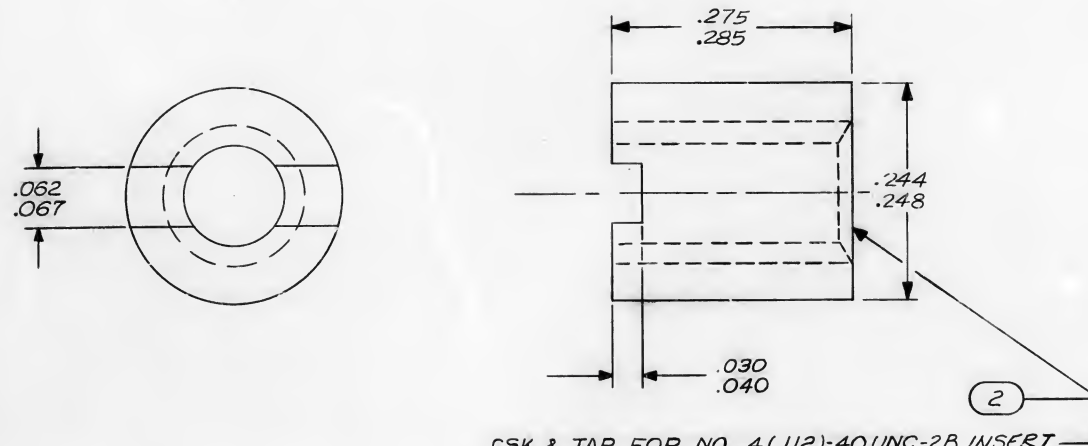
QTY REQ		PART OR IDENTIFYING NO		NOMENCLATURE OR DESCRIPTION		FR	
				LIST OF MATERIALS			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES °				M I T INSTRUMENTATION LAB Houston, Texas DRAWN BY DATE APPROVED BY DATE APPROVAL DATE MATERIAL SEE NOTE 1			
DO NOT SCALE THIS DRAWING				MANNED SPACECRAFT CENTER HOUSTON, TEXAS INSULATOR DECODING MODULE AGC DSKY, NAV & MAIN			
10035330		MEAT TREATMENT		NONE		SIZE	
NEXT ASSY		USED ON		F		NADA DRAWING NO	
APPLICATION		FINAL FINISH		NONE		10045336	
		MISA APPROVAL		10-15-63		CODE IDENT NO	
		MIS APPROVAL		10-15-63		WT	
		MIS APPROVAL		10-15-63		SCALE 3/1	
						[SHEET 1 OF 1]	

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1004540

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
-	CLASS A RELEASE PER TDRR 0296	7/5/63	24



CSK & TAP FOR NO. 4(.112)-40 UNC-2B INSERT

NOTES

1. MATL: 5052-H32 AL PER QQ-A-318 TEMP-H32
2. REMOVE SHARP EDGES
3. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
4. ANODIZE PER MIL-A-8625 TYPE II DYED BLACK

1	MS 21209-C0415	INSERT SCREW THREAD, LOCKING	2
1	1004540-1	PIN, STOP	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DWS. NO. <u>0296</u> CONTRACT <u>0296</u> DRAWN <u>0296</u> DATE <u>0296</u> CHECKED <u>0296</u> DATE <u>0296</u> APPROVAL <u>0296</u> DATE <u>0296</u> APPROVAL <u>0296</u> DATE <u>0296</u>		PIN, STOP RELAY MODULE ASSEMBLY	
1003098	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± ± ± DO NOT SCALE THIS DRAWING MATERIAL SEE NOTE 1	NASA APPROVAL <u>0296</u> DATE <u>0296</u>	CODE IDENT NO. <u>C</u> SIZE <u>1004540</u>
NEXT ASSY	HEAT TREATMENT NONE	MIT APPROVAL <u>0296</u> DATE <u>0296</u>	NASA DRAWING NO. <u>1004540</u>
APPLICATION	FINAL FINISH SEE NOTE 4	MIT APPROVAL <u>0296</u> DATE <u>0296</u>	SCALE <u>10/1</u> WT <u>1</u> SHEET <u>1</u> OF <u>1</u>

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OBLIGATIONS WHATSOEVER, AND THE FACT THAT THE GOVERNMENT HAS FURNISHED, FURNISHES, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDEN OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL, ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THEREBY.

1004541 E

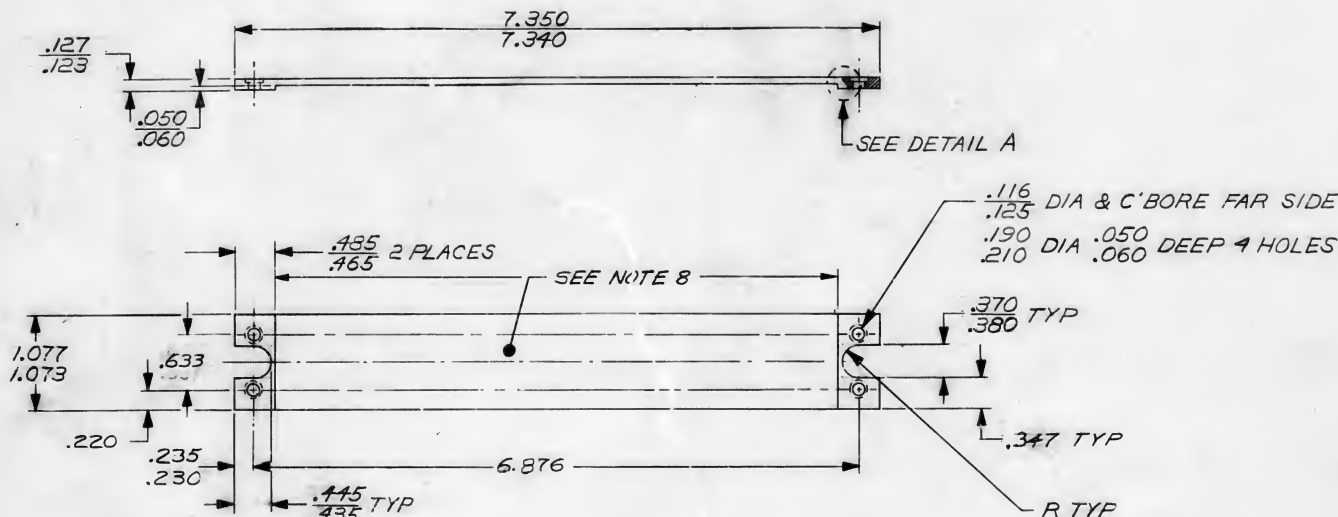
REVISIONS 03453

SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TORR 05774	1-21-64	W.H.
B	REVISED PER TORR 06432	1-15-64	W.H.
C	REVISED PER TORR 09796 DR R.P.C. most CHK A.R.B.	5/24/64	Huc
D	REVISED PER TORR 10383 DR P. Boudreau CHK A.R.B.	6/23/64	Huc
E	REVISED PER TORR 10731 DR R.P.C. most CHK A.R.B. RTH	7/2/64	Huc



.010R MAX
DETAIL A
SCALE 4/1

R-10771



NOTES

1. MATERIAL: MAGNESIUM ALLOY AZ31B-H24 PER QQ-M-44
2. ALL SURFACES 125 UNLESS OTHERWISE SPECIFIED
3. REMOVE ALL BURRS AND BREAK SHARP EDGES .005-.015
4. AR DENOTES AS REQUIRED
5. FINISH: ANODIZE PER MIL-M-3171, TYPE II AND PROCESS ENTIRE SURFACE PER ND1002040
6. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
7. FINISH: ANODIZE PER MIL-M-45202A, TYPE I, CLASS C, PREPICKLE PER PAR. 3.32 OF MIL-M-3171A
8. SPRAY COAT INDICATED SURFACE WITH CLEAR EPOXY PER ND 1002035, EXCEPT TO .005-.015 DEPTH

AR 1006849-10	INSULATION TAPE, ELEC	2	
1 1004541-1	COVER	1	
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN F. McLean	DATE 3 Aug 63	COVER	
CHECKED A.R. Boudreau	DATE 27 AUG 63	DECODING MODULE ASSEMBLY	
APPROVAL J. Boudreau	DATE 5/1/64	AGC DSKY, NAV & MAIN	
APPROVAL J. Boudreau	DATE 9 Aug 63	NASA DRAWING NO. 1004541	
NASA APPROVAL J. Boudreau	DATE 7/2/63	CODE IDENT NO. C	SCALE 1/1
MIT APPROVAL J. Boudreau	DATE 7/2/63	WT	SHEET 1 OF 1
MIT APPROVAL J. Boudreau	DATE 7/2/63	WT	SHEET 1 OF 1

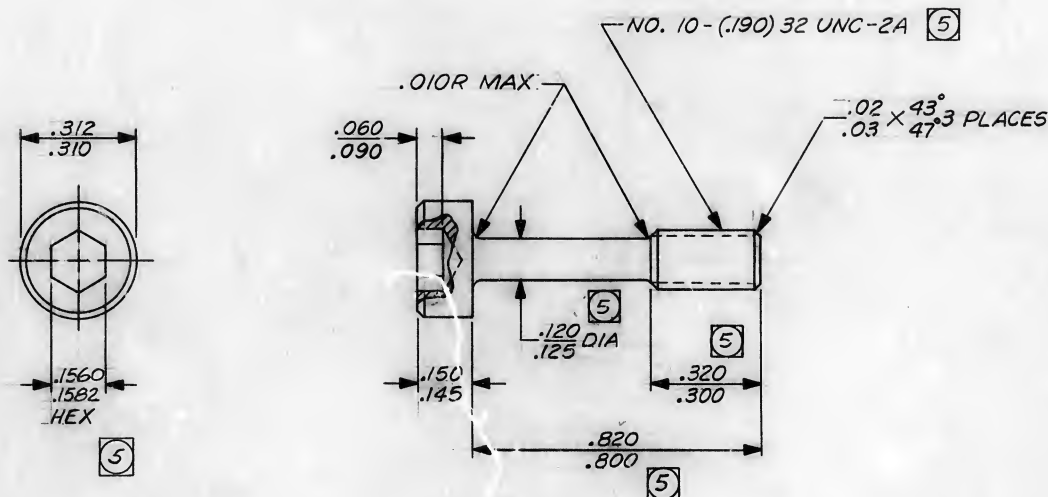
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON	FRACTIONS	DECIMALS	ANGLES
	±	±.005	±
DO NOT SCALE THIS DRAWING	MATERIAL		
SEE NOTE 1	HEAT TREATMENT		
1003530	NONE		
NEXT ASSY	USED ON		
APPLICATION	FINAL FINISH		
	SEE NOTE 5		

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY COLLATION, REPRODUCTION, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FORWARDED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONFIRMING ANY RIGHTS OR PERMISSION TO REPRODUCE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

1004545

REVISIONS 03453

SYM DESCRIPTION DATE APPROVAL



NOTES

1. MATL: 303 CRES PER QQ-5-763 CLASS 303 COND A
2. REMOVE ALL BURRS & SHARP EDGES
3. PASSIVATE PER MIL-F-14072, TYPE I, FIN. E-300
4. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
- (5) DIMENSIONS ARE CONTROLLED BY ICD MHOI-01004-116

QTY REQ	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN <i>H. Carlson</i> DATE <i>6 SEP 63</i> CHECKED <i>A. J. Smith</i> DATE <i>6 Sep 63</i> APPROVAL <i>W. J. Smith</i> DATE <i>10 Sep 63</i> APPROVAL <i>W. J. Smith</i> DATE <i>10 Sep 63</i>		SCREW, CAPTIVE AGC DISPLAY AND KEYBOARD	
1003524		NASA APPROVAL <i>W. J. Smith</i> DATE <i>10 Sep 63</i> MIT APPROVAL	CODE IDENT NO. SIZE C
NEXT ASSY	USED ON	MIT APPROVAL <i>W. J. Smith</i> DATE <i>10 Sep 63</i>	NASA DRAWING NO. 1004545
APPLICATION		SCALE 4/1	WT
HEAT TREATMENT NONE		SHEET 1 OF 1	
FINAL FINISH SEE NOTE 3			

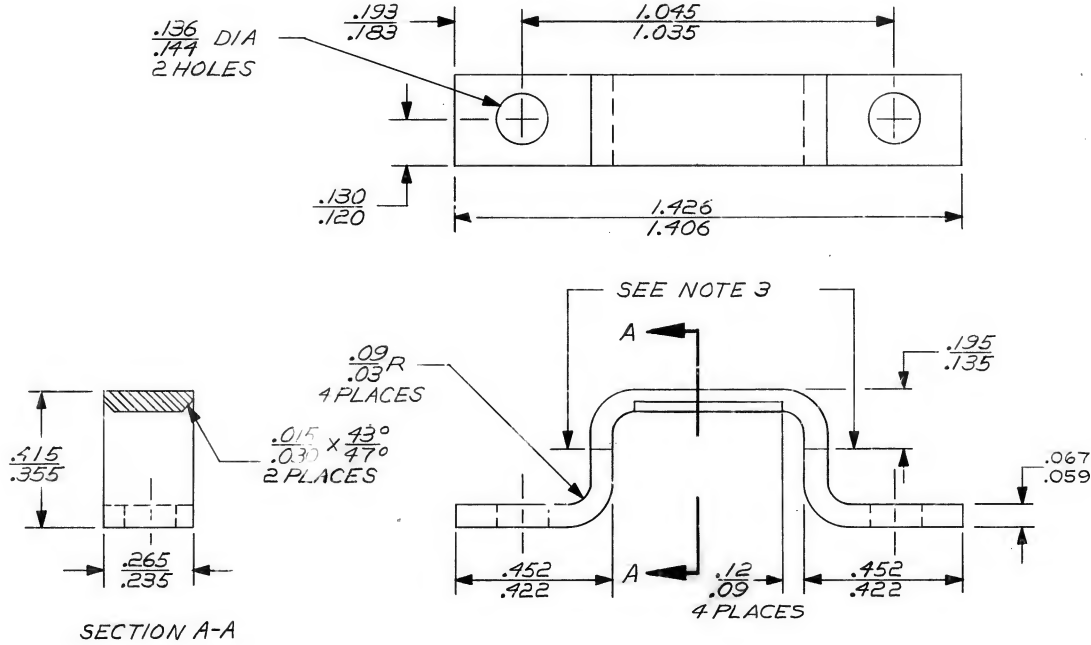
MASTER

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OMISSION, INACCURACY, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONFIRMING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THEREBY.

A 1004547

REVISIONS 03453

SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 06016	7/25/63	W. C. Hall

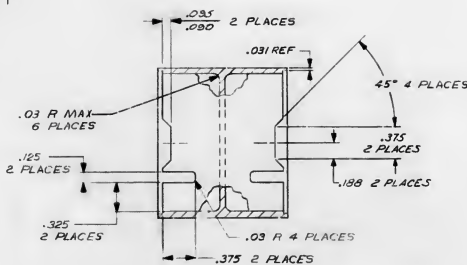


NOTES

1. MAT'L: 5052-H32 ALUMINUM PER QQ-A-318 TEMP H32
2. ANODIZE PER MIL-A-8625 TYPE II DYED BLACK
3. EPOXY COAT ALL FOUR SIDES OF INDICATED AREA PER ND 1002035
4. REMOVE BURRS AND SHARP EDGES
5. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± ± ± DO NOT SCALE THIS DRAWING MATERIAL 1003524 NEXT ASSY USED ON APPLICATION	HEAT TREATMENT NONE FINAL FINISH SEE NOTE 2
--	--	---	--

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN: P. S. Dwyer DATE: 09-1-63 CHECKED: J. P. Dwyer DATE: 12-1-63 APPROVAL: W. C. Hall DATE: 02-29-63		BRACKET, CABLE SUPPORT AGC DISPLAY AND KEYBOARD	
NASA APPROVAL: J. P. Dwyer DATE: 7/24/63 MIT APPROVAL: P. S. Dwyer DATE: 7/24/63		CODE IDENT NO. SIZE C	NASA DRAWING NO. 1004547
SCALE 4/1		WT	SHEET 1 OF 1



Technical drawing of a shaft with a keyway and a tapered insert. The shaft has a diameter of .90 and a keyway with a diameter of .95. The insert is tapered, with a diameter of .90 at the top and .92 at the bottom. The insert is secured with a screw. The drawing includes dimensions and a note: "TAP FOR NO. 10 (.90)-32 UNF-2B INSERT X 1 DIA". A circled number 3 is also present.

Technical drawing of a mechanical part, likely a bracket or flange, showing dimensions and tolerances. The part has a rectangular body with a flange on the left and a mounting tab on the right. Dimensions include overall width of .312, mounting tab width of .250, and flange thickness of .047. Tolerances are specified as .03 R MAX (4 PLACES) for internal corners and .005 R MAX (8 PLACES) for internal corners. Surface finish is indicated as .659 TYP on the flange and .047 on the mounting tab. A .156 R REF dimension is also shown.

SECTION D-D

1. MATL:10204-T4 AL PER QQ-A-268 TEMP T4
2. REMOVE ALL BURRS AND SHARP EDGES
3. ANODIZE / MIL-A-8625 TYPE I DYED BLACK

4. INTERPRET DRAWING IN ACCORDANCE WITH
STANDARDS PRESCRIBED BY MIL-D-70327
5. 6 UNLESS OTHERWISE SPECIFIED
6. UNLESS OTHERWISE SPECIFIED ALL FILLETS R RADII
TO BE .010 MAX
7. A & B DIMENSIONS TO BE EQUAL WITHIN .005
8. INSTALL PINS NO. 2 PER MS-35646
9. LOCAT THRUHOLES 1 FROM NUMBERS 1 & 3 WITH MIL-P-3585 MET ZINC CHROMATE PRIMER
10. INSTALL PIN NO. 3 PER MS-35646 BREAK OFF DURING TEST

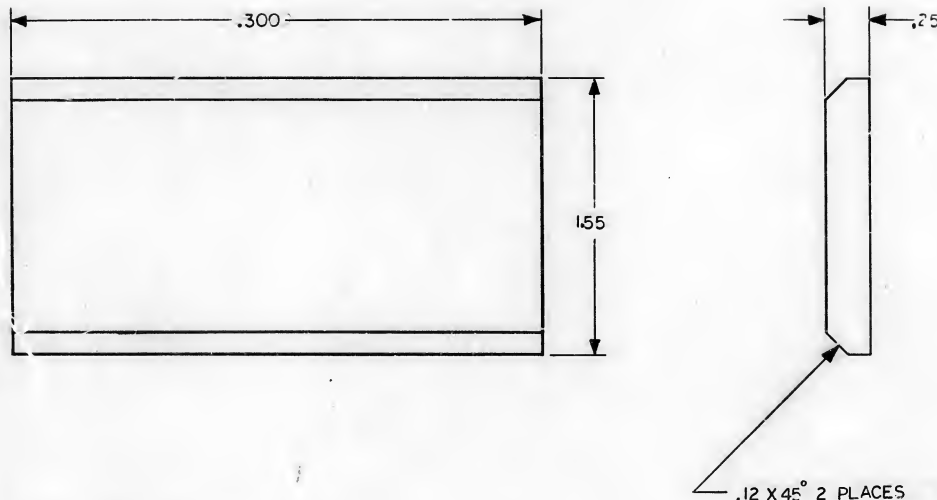
1	MS2108 FW-10	INSERT MEDICAL CUL
2	MS2108B COMD	INSERT MEDICAL CUL
3	1004548 F	HEADER HOUSING
QTY	4	REQUISITE CL DESCRIPTION
REQD	ON DEFICITING CN	
M7Y INSTRUMENTATION LAB CONTINUED		LIST OF MATERIALS
MANNED SPACECRAFT CENTER BOXTON TOWER		
1	CHASSIS 22000000, PART 020000	
2	DIAGNOSTIC REPAIR REPAIR	
3	APPROVAL REPAIR REPAIR	
4	APPROVAL REPAIR REPAIR	
HEADER HOUSING		
AGC CLOCK OSCILLATOR		
MSR APPROVAL REPAIR REPAIR	CASE NO	SIZE
MSR APPROVAL REPAIR REPAIR	E	1004548
MSR APPROVAL REPAIR REPAIR	CASE 2/1	UNIT

NOTICE - UNLESS GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A SPECIFICALLY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY DELAYATION, INTERRUPTION, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONFERRING ANY RIGHTS OR PERMISSION TO REPRODUCE, OR IN ANY MANNER, OR BELIEVE ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

1004553

REVISIONS 03453

SYM	DESCRIPTION	DATE	APPROVAL



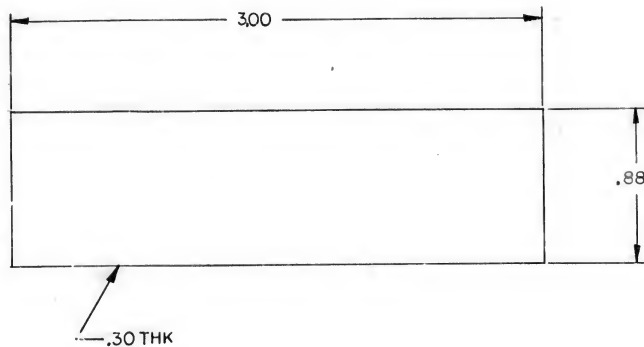
NOTES:-

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL D 70327
2. MAT'L MAKE FROM DRAWING NO 1006729

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± ± .02 ± 5° DO NOT SCALE THIS DRAWING MATERIAL SEE NOTE 2		DRAWN <i>J. P. ...</i> DATE <i>8/26/63</i> CHECKED <i>R. ...</i> 5/26/63 APPROVAL <i>W.B.T. ...</i> 2/5/63 APPROVAL <i>J. ...</i> 9/24/63	
1003527 NEXT ASSY USED ON APPLICATION		NASA APPROVAL <i>J. ...</i> 7/14/62 MIT APPROVAL MIT APPROVAL <i>J. ...</i> 9/16/62	CODE IDENT NO. SIZE C SCALE 2/1 WT SHEET 1 OF 1

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A GOVERNMENT-RELATED OPERATION, THE UNITED STATES GOVERNMENT ASSUMES NO RESPONSIBILITY FOR ANY INACCURACIES, OMISSIONS, OR ERRORS. THE FACT THAT THE GOVERNMENT HAS REVIEWED, FORWARDED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONFIRMING THE ANY RIGHTS OR PERMISSIONS TO REPRODUCE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THEREIN.



- NOTES:-
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. MATERIAL: MAKE FROM DRAWING NO. 1006729

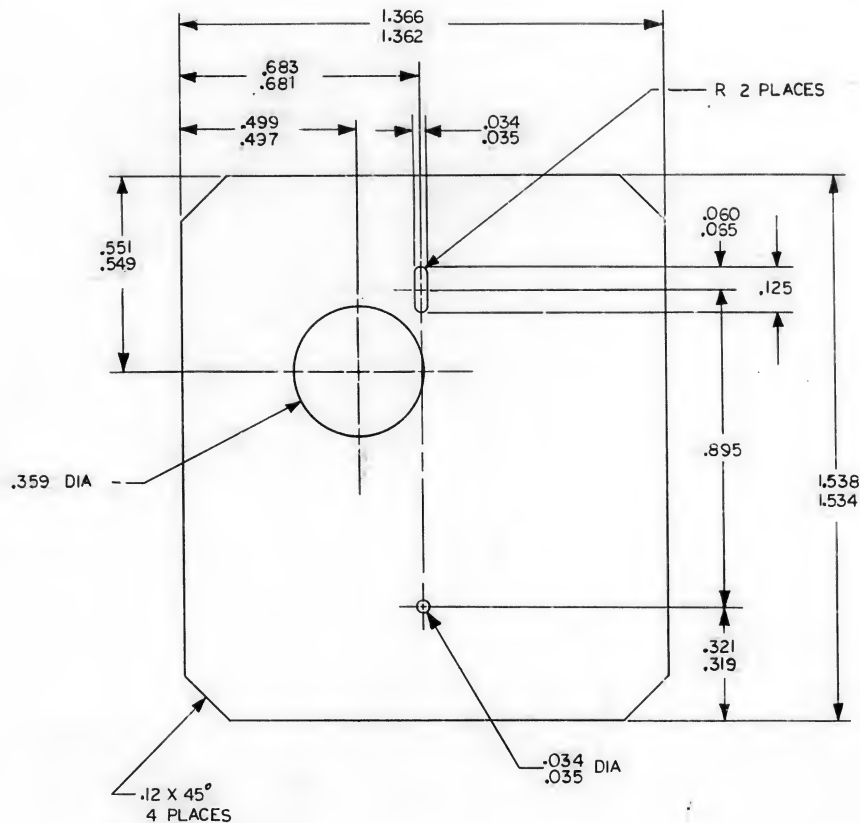
MASTER

QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIND NO.
LIST OF MATERIALS						
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.				MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN <i>P. Bennett</i> DATE <i>13 AUG 63</i>				INSULATOR		
CHECKED <i>P. Edwards</i> 8/14/63				AGC OSCILLATOR		
APPROVAL <i>W.D. Dwyer</i> 25 SEP 63				NASA DRAWING NO. 1004554		
APPROVAL <i>C. J. Dwyer</i> 9/24/63				SCALE 2/1		
1003527				NASA APPROVAL <i>W.D. Dwyer</i> 1/14/63		WT
NEXT ASSY USED ON				MIT APPROVAL		SHEET 1 OF 1
APPLICATION				MIT APPROVAL <i>C. J. Dwyer</i> 9/24/63		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± ±.02 ± DO NOT SCALE THIS DRAWING MATERIAL SEE NOTE 2 HEAT TREATMENT FINAL FINISH						

1004554 A

REVISIONS 03453			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 05779	1-21-64	W.D. Dwyer

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- NOTES-
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. MAT'L .031 THK GIO PLASTIC PER MIL-P-18177, TYPE GEE
 3. REMOVE BURRS AND SHARP EDGES

QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIND NO.	
LIST OF MATERIALS							
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.				MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
DRAWN <i>[Signature]</i> DATE <i>5/24/63</i>				END PLATE, RIGHT			
CHECKED <i>[Signature]</i> DATE <i>25 SEP 63</i>				AGC OSCILLATOR			
APPROVAL <i>[Signature]</i> DATE <i>25 SEP 63</i>				NASA DRAWING NO. 1004555			
MATERIAL SEE NOTE 2				NASA APPROVAL <i>[Signature]</i> DATE <i>7/24/63</i>		CODE IDENT NO. SIZE C	
HEAT TREATMENT				MIT APPROVAL		SCALE 4/1	
FINAL FINISH				MIT APPROVAL <i>[Signature]</i> DATE <i>7/24/63</i>		WT	
1003527		NEXT ASSY USED ON		SHEET 1		OF 1	
APPLICATION							

MASTER

Technical drawing of a mechanical part, likely a bracket or plate, showing dimensions and tolerances. The drawing includes a top view and a side view.

Top View Dimensions:

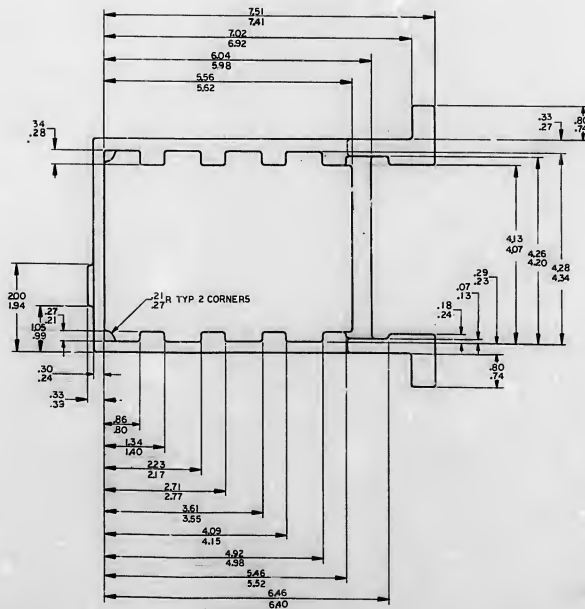
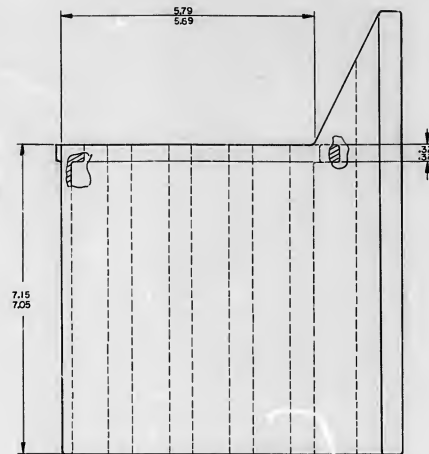
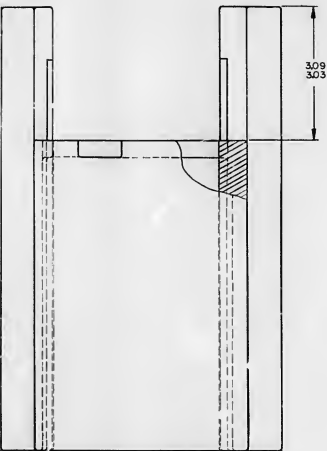
- Overall width: 4.278 (tolerance 4.238)
- Overall height: 4.620 (tolerance 4.580)
- Left side features:
 - Top hole: 3.815 (tolerance 3.775)
 - Bottom hole: 2.195 (tolerance 2.155)
 - Bottom hole offset: .575 (tolerance .535)
- Right side features:
 - Top hole: .497 (tolerance .457)
 - Bottom hole: .395 (tolerance .375) TYP 2 PLACES
- Internal features:
 - Top hole: .320 (tolerance .360)
 - Bottom hole: .240 (tolerance .260)
 - Bottom hole offset: .230 (tolerance .250) TYP
 - Bottom hole offset: .030R MAX TYP

Side View Dimensions:

- Overall width: 12.220 (tolerance 12.180)
- Overall height: 11.885 (tolerance 11.845)
- Internal features:
 - Top hole: 4.775 (tolerance 4.735)
 - Bottom hole: 6.425 (tolerance 6.385) 11 PLACES
 - Bottom hole offset: 7.775 (tolerance 7.735)
 - Bottom hole offset: 10.015 (tolerance 9.975)

SECTION G-G

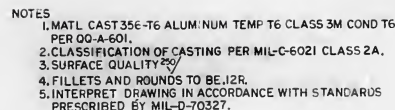
(1) ITEM NO. (2) PART OR IDENTIFYING NO. (3) QUANTITY (4) UNIT OF MEASURE (5) UNIT PRICE (6) TOTAL PRICE (7) DATE (8) NAME OF VENDOR (9) ADDRESS (10) CITY (11) STATE (12) ZIP CODE (13) PHONE NO. (14) FAX NO.		(15) NAME OF SUPPLIER (16) ADDRESS (17) CITY (18) STATE (19) ZIP CODE (20) PHONE NO. (21) FAX NO.	
(22) NAME OF BUYER (23) ADDRESS (24) CITY (25) STATE (26) ZIP CODE (27) PHONE NO. (28) FAX NO.		(29) NAME OF SELLER (30) ADDRESS (31) CITY (32) STATE (33) ZIP CODE (34) PHONE NO. (35) FAX NO.	
(36) NAME OF BUYER (37) ADDRESS (38) CITY (39) STATE (40) ZIP CODE (41) PHONE NO. (42) FAX NO.		(43) NAME OF SELLER (44) ADDRESS (45) CITY (46) STATE (47) ZIP CODE (48) PHONE NO. (49) FAX NO.	
(50) NAME OF BUYER (51) ADDRESS (52) CITY (53) STATE (54) ZIP CODE (55) PHONE NO. (56) FAX NO.		(57) NAME OF SELLER (58) ADDRESS (59) CITY (60) STATE (61) ZIP CODE (62) PHONE NO. (63) FAX NO.	
(64) NAME OF BUYER (65) ADDRESS (66) CITY (67) STATE (68) ZIP CODE (69) PHONE NO. (70) FAX NO.		(71) NAME OF SELLER (72) ADDRESS (73) CITY (74) STATE (75) ZIP CODE (76) PHONE NO. (77) FAX NO.	
(78) NAME OF BUYER (79) ADDRESS (80) CITY (81) STATE (82) ZIP CODE (83) PHONE NO. (84) FAX NO.		(85) NAME OF SELLER (86) ADDRESS (87) CITY (88) STATE (89) ZIP CODE (90) PHONE NO. (91) FAX NO.	
(92) NAME OF BUYER (93) ADDRESS (94) CITY (95) STATE (96) ZIP CODE (97) PHONE NO. (98) FAX NO.		(99) NAME OF SELLER (100) ADDRESS (101) CITY (102) STATE (103) ZIP CODE (104) PHONE NO. (105) FAX NO.	



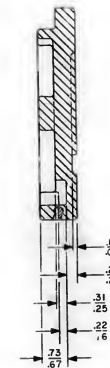
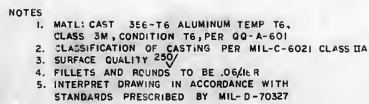
- NOTES
1. MAT'L: CAST 356-T6 ALUMINUM, TEMP T6, CLASS 3M, CONDITION T6, PER QQ-A-501
 2. CLASSIFICATION OF CASTING PER MIL-C-6021, CLASS I/A
 3. SURFACE QUALITY 250
 4. FILLETS AND ROUNDS TO BE .06 R
 5. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO.	DESCRIPTION OR NOMENCLATURE	FINO NO.
LIST OF MATERIALS			
CITY INSTRUMENTATION LAB HOUSTON, TEXAS DRAWN BY <u>SPB</u> CHECKED BY <u>SPB</u> APPROVED BY <u>SPB</u> DATE <u>2/13/63</u>			
MANNED SPACECRAFT CENTER HOUSTON, TEXAS CASTING RELAY HOUSING AGC DSKY, NAV & MAIN CODE IDENT NO. <u>E</u> DRAWING NO. <u>1004561</u>			
100-569 100-539 HEAT TREATMENT NONE MATERIAL SEE NOTE 1 NEXT APPR. <u>SPB</u> DATE <u>2/13/63</u>			
APPLICATION SEAL FINISH NONE NEXT APPR. <u>SPB</u> DATE <u>2/13/63</u>			

REVISIONS 04/86			
SYM	DESCRIPTION	DATE	APPROVAL

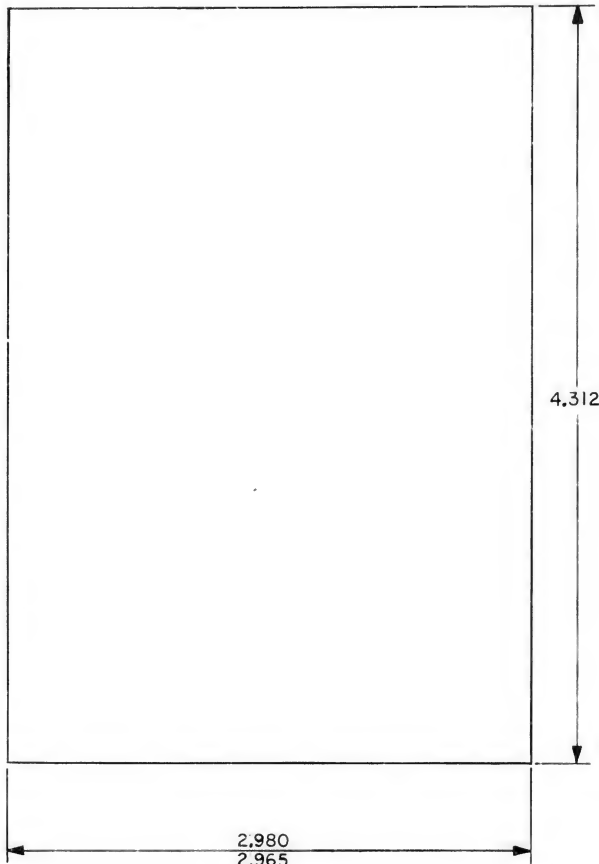


QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIND NO.	
				LIST OF MATERIALS			
		MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. BPS NO. _____ (CONTACT)		MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS = DECIMALS = ANGLES =		DRAWN <u>22 August</u> , DATE <u>9-18-65</u> CHECKED <u>20 Sept</u> APPROVAL <u>20 Sept 1965</u> MATERIAL APPROVAL <u>22 Sept 1965</u>		CASTING HEADER ASSY RELAY MODULE AGC DSKY, NAV 8 MAIN			
DO NOT SCALE THIS DRAWING MATERIAL SEE NOTE 1		NASA APPROVAL <u>[Signature]</u> MIT APPROVAL <u>[Signature]</u> MIT APPROVAL <u>[Signature]</u>		CODE IDENT NO. _____ SIZE _____ D _____		NASA DRAWING NO. _____ 1004562	
1004113 NEXT ASSY USED ON		HEAT TREATMENT NONE FINAL FINISH NONE		SCALE <u>1/1</u>		SHEET 1 OF 1	
APPLICATION							

[illegible]

QTY 100	PRINT OR IDENTIFYING IN.	NONEXACTITUDE OR DESCRIPTION	FR 10
LIST OF MATERIALS			
MITY INSTRUMENTATION LAB CHAIRMAN DRAWN BY <i>CH. GARDNER</i> DATE <i>7-2-62</i> CHECKED BY <i>CH. GARDNER</i> DATE <i>7-2-62</i> APPROVAL <i>CH. GARDNER</i> DATE <i>7-2-62</i>		MANHED SPACECRAFT CENTER MISSION TEAM	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES OR FRACTIONS OR DECIMALS		CASTING CONNECTOR PLATE ASQ, DSKY, N MAIN	
DO NOT SCALE THIS DRAWING MATERIAL		SEE NOTE 1	
1004584	HEAT TREATMENT NONE	SIZE E	FINISH E
1004152	USED ON NEXT ASSEMBLY	SCALE 1/16"	SHEET 1 OF 3

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NOTES

1. MATL: 004 THK SHEET, COPPER SOFT ANNEALED, COLD ROLLED PER QQ-C-576
2. SILVER PLATE PER QQ-S-365, TYPE III GRADE A
3. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON
		FRACTIONS DECIMALS ANGLES
		± ±.016 ±
		DO NOT SCALE THIS DRAWING
		MATERIAL
		SEE NOTE 1
1003526		HEAT TREATMENT
NEXT ASSY	USED ON	NONE
APPLICATION		FINAL FINISH
		SEE NOTE 2

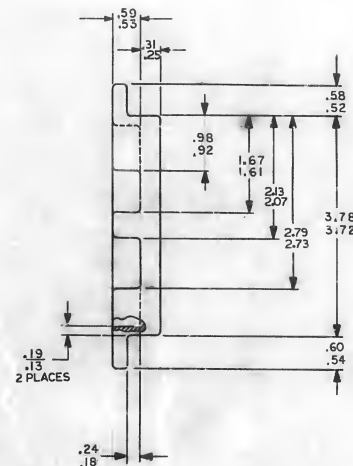
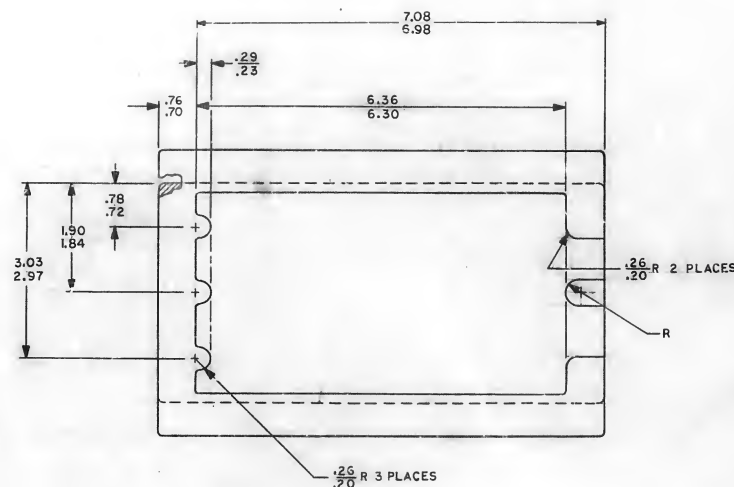
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN <i>P. Brown</i> DATE <i>23 Sep 63</i>		SHIELD AGC OSCILLATOR	
CHECKED <i>R. Edwards</i> <i>24 Sep 63</i>			
APPROVAL <i>W. B. Lyons</i> <i>20 Oct 63</i>			
APPROVAL <i>S. J. Thompson</i> <i>14 Feb 64</i>			
NASA APPROVAL <i>W. J. Rhine</i> <i>10 Feb 63</i>	CODE IDENT NO.	SIZE	NASA DRAWING NO.
MIT APPROVAL <i>W. J. Rhine</i> <i>10 Feb 63</i>		C	1004564
MIT APPROVAL <i>W. J. Rhine</i> <i>30 Oct 63</i>	SCALE 2/1	WT	SHEET 1 OF 1

1004564 A

REVISIONS 03631			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 07261 DRH. Carlson CHK Oued	3/23/64	HeX

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1004566		REVISIONS 0363		1
SYM	DESCRIPTION	DATE	APPROVAL	
A	REVISED PER DRR 04170	10-20-63	W. J. H.	
B	REVISED PER DRR 04240	4-26-64	W. J. H.	



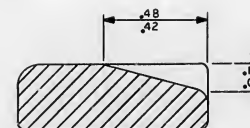
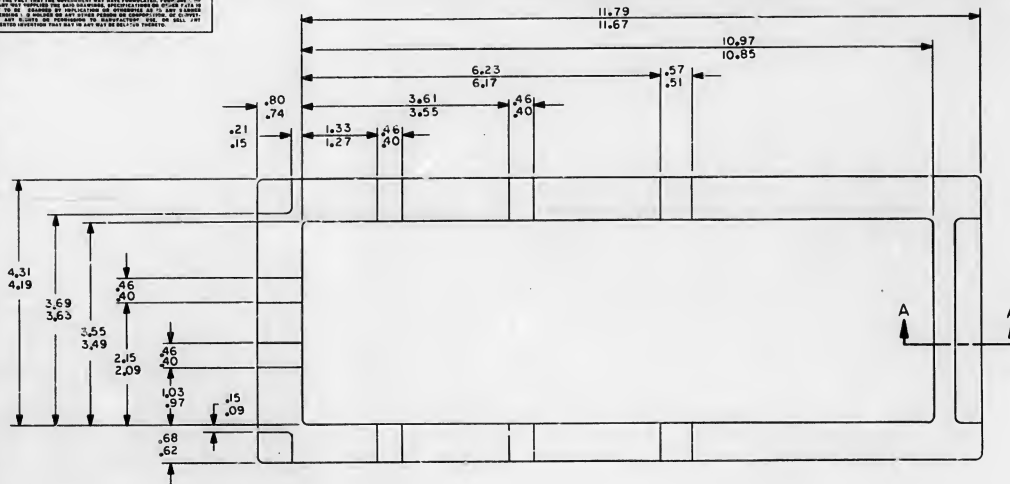
NOTES

1. MATL: CAST 356-T6 ALUMINUM ALLOY TEMP T6, CLASS 3M, CONDITION T6, PER QQ-A-801
2. CLASSIFICATION OF CASTING PER MIL-C-6021 CLASS IIA
3. SURFACE QUALITY 250
4. FILLETS AND ROUNDS TO BE .06/12R
5. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

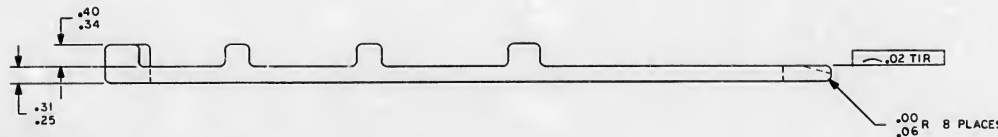
MASTER

QTY REQ	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
<p>MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.</p> <p>MANNED SPACECRAFT CENTER HOUSTON, TEXAS</p>			
DRAWN BY: <i>W. J. H.</i> DATE: <i>10-20-63</i>		CASTING CONNECTOR PLATE	
CHECKED BY: <i>W. J. H.</i> DATE: <i>10-20-63</i>		DECODING MODULE	
APPROVAL BY: <i>W. J. H.</i> DATE: <i>10-20-63</i>		AGC DSKY NAV & MAIN	
NASA APPROVAL BY: <i>W. J. H.</i> DATE: <i>10-20-63</i>		CODE IDENT NO. <i>D</i>	NASA DRAWING NO. <i>1004566</i>
MIT APPROVAL BY: <i>W. J. H.</i> DATE: <i>10-20-63</i>		SCALE <i>1/1</i>	SHEET <i>1</i> OF <i>1</i>

NOTICE - WHEN APPROVED DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR THE CONSTRUCTION OF A PART, THE USER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PART. THE USER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PART. THE USER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PART.



SECTION A-A
SCALE 4/1

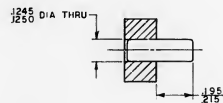


NOTES

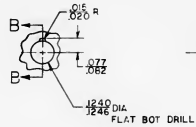
1. MATL: CAST 356-T6 ALUMINUM TEMP T6, CLASS 3M, CONDITION T6, PER QQ-A-601
2. CLASSIFICATION OF CASTING PER MIL-C-6021 CLASS 1A
3. SURFACE QUALITY 250
4. FILLETS AND ROUNDS TO BE .06/.02 R UNLESS OTHERWISE SPECIFIED
5. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIND NO.	
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.				MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
DRAWING DATE 10/6/61				CASTING PLATE ELECTRO LUMINESCENT A G C KEYBOARD			
CHECKED 10/11/61				CODE IDENT NO. D			
APPROVAL 10/11/61				NASA DRAWING NO. 1004567			
MIT APPROVAL 10/11/61				SCALE 1/1			
MIT APPROVAL 10/11/61				SHEET 1 OF 1			

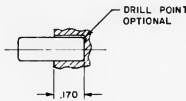
1004567



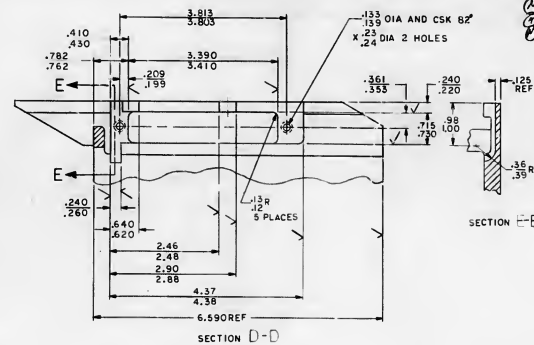
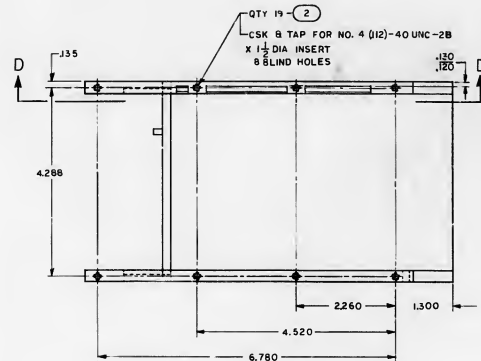
SECTION A-A
SCALE 4/1



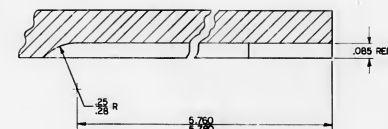
DETAIL A
SCALE 4/1



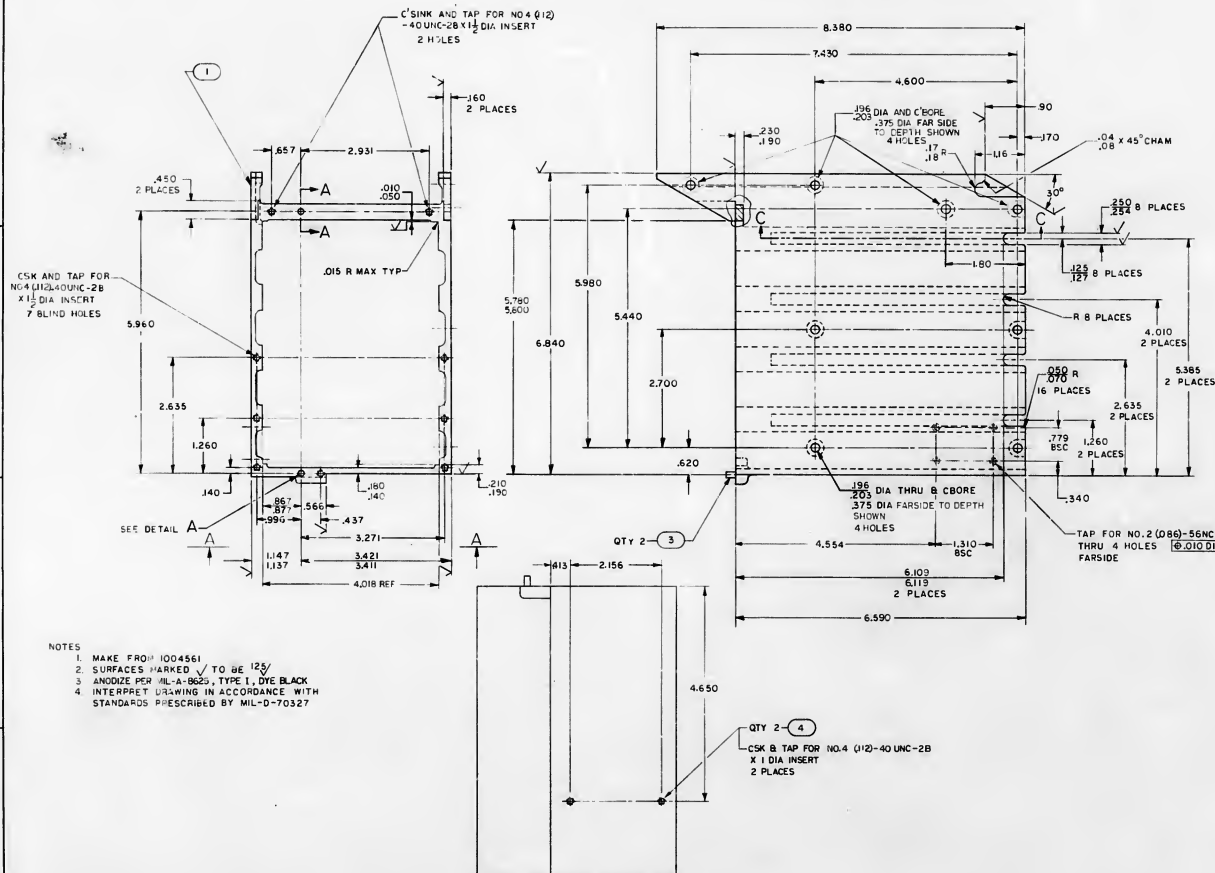
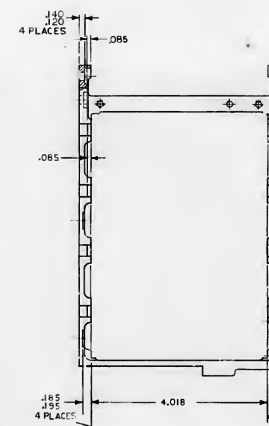
SECTION B-B
SCALE 4/1



SECTION E-1



SECTION C-C
SCALE 4/1
*YP 8 PLACES



VIEW A-A

- NOTES
1. MAKE FROM 1004561
 2. SURFACES MARKED ✓ TO BE 125/
 3. ANODIZE PER MIL-A-8625, TYPE I, DYE BLACK
 4. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

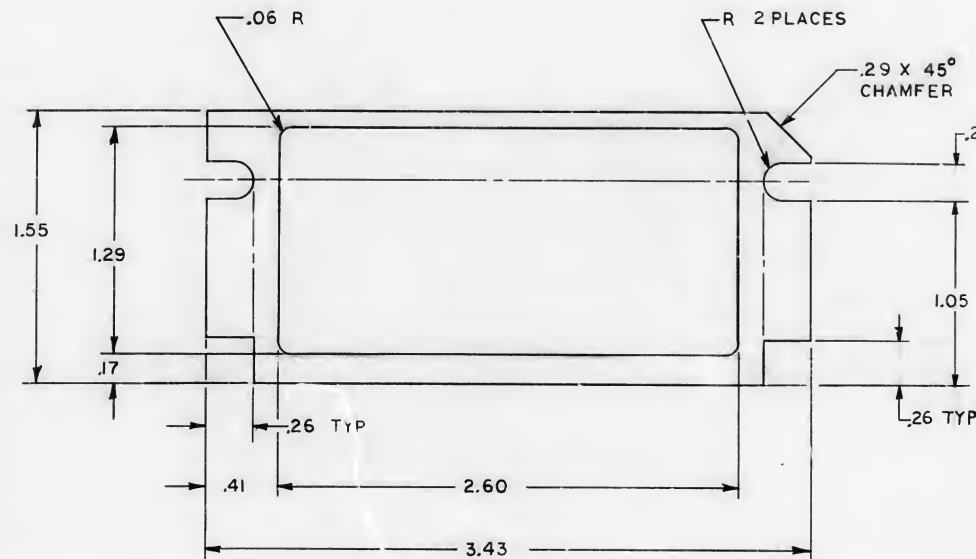
CSK & TAP FOR NO.4 (1/2)-40 UNC-2B
X 1 DIA INSERT
2 PLACES

SEE NOTE 1

2	MS2208-C0410	INSERT HELICAL	4
2	AN12652	PIN,DOWEL	3
17	MS2209-C0415	INSERT HELICAL	2
1	1004569-1	HOUSING, RELAY TRAY	1
QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FINO NO

UNLESS OTHERWISE SPECIFIED CHARACTERS ARE IN PHONES RELAYANCE OF FRACTIONS		RTV INSTRUMENTATION LAB CHECKED <i>[Signature]</i> APPROVED <i>[Signature]</i>		LIST OF MATERIALS MANNEP SPACECRAFT CENTER HOUSTON, TEXAS	
APR 15 1968 DO NOT SCALE THIS DRAWING MATERIAL		DRAWING DATE: 04/15/68 CHECKED <i>[Signature]</i> APPROVED <i>[Signature]</i>		HOUSING, RELAY TRAY AGC DSKY, MAIN	
SEE NOTE 1		NONE SEE NOTE 3		DRAWING NO. 1004569 SIZE E SCALE 1/16" = 1"	
1003540 1003466 NEXT ASBY USED ON		RTT APPROVAL <i>[Signature]</i> RTT APPROVAL <i>[Signature]</i>		RTT APPROVAL <i>[Signature]</i>	
APPLICATION		FINAL CHECKED <i>[Signature]</i> SEE NOTE 3		RTT APPROVAL <i>[Signature]</i>	

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFENSE-RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT TAKES NO RESPONSIBILITY FOR ANY OMISSIONS, ERRORS, OR THE FACT THAT THE GOVERNMENT MAY HAVE FORWARDED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWING, SPECIFICATION, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONFIRMING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.



NOTES

1. MATL: .06 / .09 THK NEOPRENE RUBBER PER MIL-R-6855, CLASS II, HARDNESS 40 DUROMETER
2. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

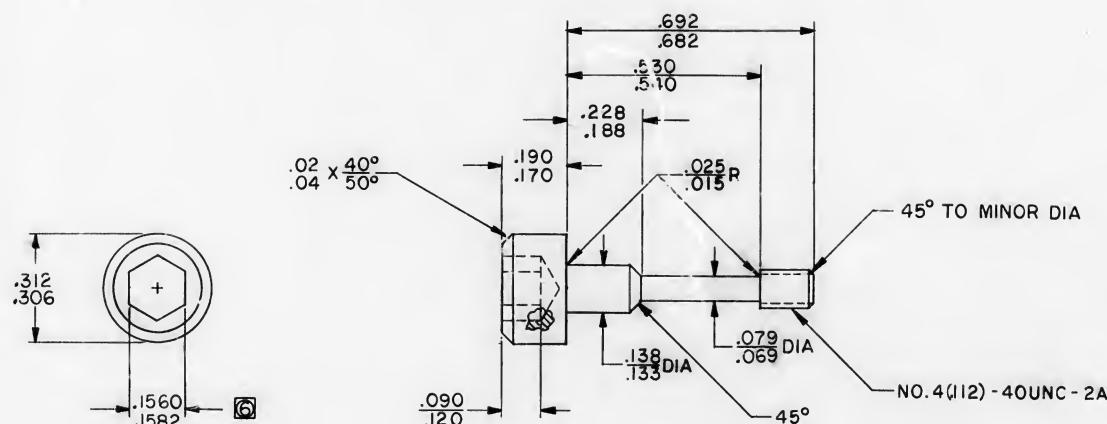
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN <i>[Signature]</i> DATE 8 OCT 63 CHECKED <i>[Signature]</i> DATE 29 OCT 63 APPROVAL <i>[Signature]</i> DATE 30 OCT 63 APPROVAL <i>[Signature]</i> DATE 1 NOV 63		GASKET INDICATOR DISPLAY AGC DSKY MAIN	
1003543	HEAT TREATMENT NONE	NASA APPROVAL <i>[Signature]</i> MIT APPROVAL <i>[Signature]</i> MIT APPROVAL <i>[Signature]</i>	CODE IDENT NO. <i>[Blank]</i> SIZE C NASA DRAWING NO 1004581
NEXT ASSY	USED ON	APPLICATION	SCALE 2/1 WT SHEET 1 OF 1

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

1004583

REVISIONS 05/78

SYM DESCRIPTION DATE APPROVAL



NOTES

1. MATERIAL: 416 CRES, CLASS 416, COND H, PER QQ-S-763
2. FINISH: PASSIVATE PER MIL-F-14072
3. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
4. REMOVE ALL BURRS AND SHARP EDGES
5. REMOVE BURRS FROM BOTTOM OF BROACHED HOLE
6. DIMENSION CONTROLLED BY ICDMHOI-01005-116

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
		TOLERANCES ON	
		FRACTIONS	DECIMALS
		±	±
		ANGLES	
		±	
		DO NOT SCALE THIS DRAWING	
		MATERIAL	
		SEE NOTE 1	
1003532		HEAT TREATMENT	
		NONE	
NEXT ASSY		FINAL FINISH	
		SEE NOTE 2	
APPLICATION			

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DWS. NO. CONTRACT			
DRAWN <i>[Signature]</i> DATE <i>2/11/63</i>		SCREW, CAPTIVE- POWER SUPPLY AGC DSKY NAV & MAIN	
CHECKED <i>G.R. Boggs</i> 25NOV63			
APPROVAL <i>[Signature]</i> 12-16-63			
APPROVAL <i>[Signature]</i> 12/17/63		CODE IDENT NO.	SIZE
NASA APPROVAL <i>[Signature]</i> 12/17/63			C
MIT APPROVAL		NASA DRAWING NO.	
MIT APPROVAL <i>[Signature]</i> 12/17/63		1004583	
SCALE 4 / 1		WT	SHEET 1 OF 1

6

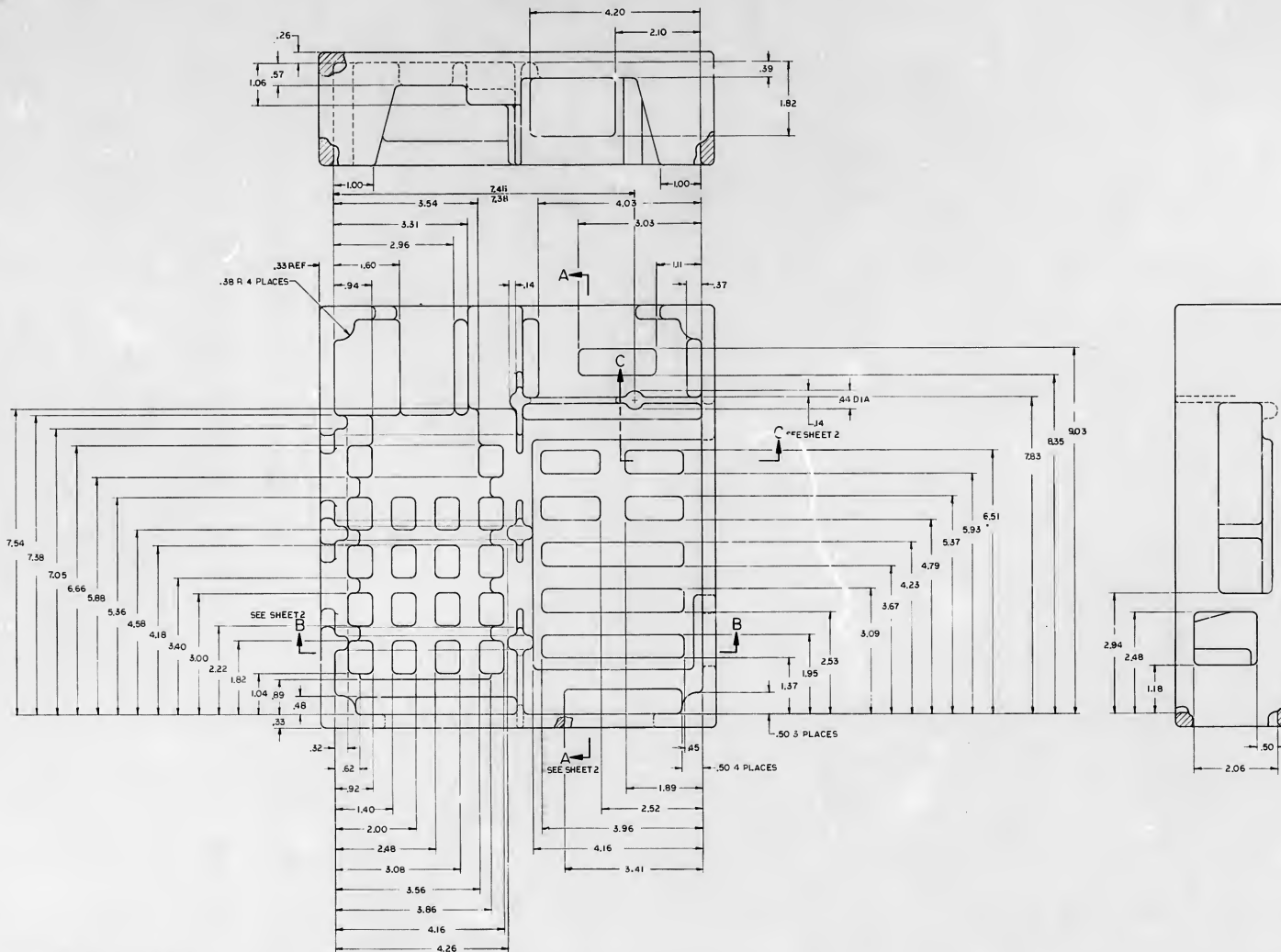
5

4

3

2

REV	DESCRIPTION	DATE	INITIALS
A	REVISED PER TORR 07439 DISAPPEARED CHK 9/1	10/26/76	WAC
B	REVISED PER TORR 07644 DR. C. C. CHK 9/1	11/1/76	WAC
C	REVISED PER TORR 14732 DR. C. C. CHK 9/1	11/1/76	WAC



NOTES

1. MATL 356-T6 AL PER QW A-FOL CLASS 2AL COND T6
ALTERNATE MATL FOR MACHINING 6061-T6 ALUMINUM
ALLOY PER QQ-A-327 TEMPER T6
2. CLASSIFICATION OF CASTING PER MIL-C-6021 CLASS II A
3. AS CAST SURFACE QUALITY TO BE 250/V
4. ALL FILETS & ROUNDS TO BE .06/.18 R UNLESS OTHERWISE SPECIFIED
5. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED
BY MIL-D-70327

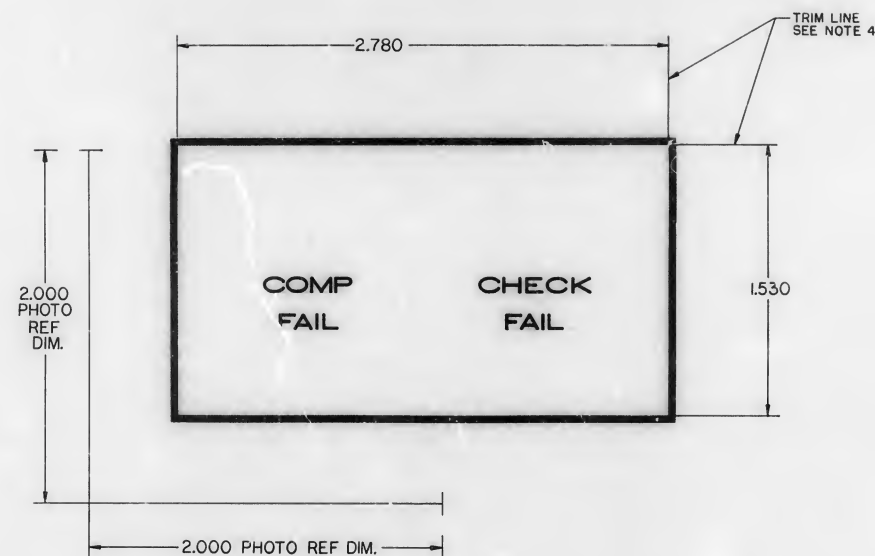
SEE SHEET 2

SEE SHEET 2

QTY REQD	PART OR IDENTIFYING NO	NONNOMENCLATURE OR DESCRIPTION	FIG NO
LIST OF MATERIALS			
MTL INSTRUMENTATION LAB HOUSTON, TEXAS DRAWN BY: J. J. JAMES CHECKED BY: J. J. JAMES APPROVAL BY: J. J. JAMES DATE: 10/26/76			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES + .03 DO NOT SCALE THIS DRAWING MATERIAL SEE NOTE 1			
HEAT TREATMENT NONE FINAL THICKNESS NONE			
NACA APPROVAL NIT APPROVAL MET APPROVAL			
CODE IDENT NO 1004151		NACA & DOWING NO 1004586	
SCALE 1/1		SHEET 1 OF 2	



UNIT QTY		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIN. NO.	
				LIST OF MATERIALS			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES +.03 DO NOT SCALE THIS DRAWING MATERIAL				M I T INSTRUMENTATION LAB CASTING MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
				DRAWN BY <u>W. J. HARRIS</u> DIFF 220208 CHECKED BY <u>W. J. HARRIS</u> DIFF 220208 APPROVED BY <u>W. J. HARRIS</u> DIFF 220208 APPROVAL <u>W. J. HARRIS</u> DIFF 220208			
				CASTING FRONT PANEL HOUSING AGS DSKY MAIN			
				PART APPROVAL <u>W. J. HARRIS</u> SET APPROVAL <u>W. J. HARRIS</u>			
				SCALE 1/1 SHEET 2 OF 2			
NEXT ASSEMBLY USED ON		FINAL FINISH		CODE IDENT NO. SIZE E 1004586			
APPLICATION							

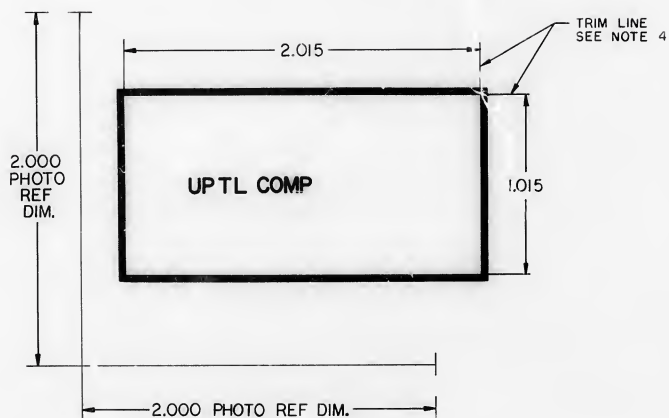


NOTES:

1. MATERIAL: 006/008 THICK PLASTIC SHEET, SENSITIZED, DIMENSIONALLY STABLE PER L-F-340, TYPE 1B, CLASS 2, STYLE 1A
2. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
3. THE ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY A PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY. DIMENSIONAL VARIATIONS SHALL NOT EXCEED .001 INCH PER FOOT
4. CUT TO WITHIN .001 OF TRIM LINE
5. MAKE PHOTOGRAPHIC MASTER NEGATIVE AND POSITIVE FILMS TO TO DIMENSIONS SHOWN

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIG NO.																																																							
LIST OF MATERIALS																																																										
MANNED SPACECRAFT CENTER HOUSTON, TEXAS																																																										
INSULATOR, FRONT INDICATOR DISPLAY AGC DSKY, MAIN																																																										
<table border="1"> <tr> <td>1003540</td> <td>NEXT ASBY</td> <td>USED ON</td> <td>FRONT FRONT</td> <td>APPLICATION</td> </tr> <tr> <td colspan="5"> <table border="1"> <tr> <td>UPPER OF THIS SPECIFIED DIMENSIONS ARE IN DECIMALS OF INCHES</td> <td>INSTRUMENTATION LAB</td> <td>DATE</td> </tr> <tr> <td>TOLERANCES ON FRACTIONS DECIMALS ANGLES</td> <td>DATE</td> <td>DATE</td> </tr> <tr> <td>"020"</td> <td>CHECKED: <i>[Signature]</i></td> <td>DATE: <i>[Date]</i></td> </tr> <tr> <td>DO NOT SCALE THIS DRAWING</td> <td>APPROVAL: <i>[Signature]</i></td> <td>DATE: <i>[Date]</i></td> </tr> <tr> <td>MATERIAL</td> <td>APPROVAL: <i>[Signature]</i></td> <td>DATE: <i>[Date]</i></td> </tr> </table> </td> </tr> <tr> <td colspan="5">SEE NOTE 1</td> </tr> <tr> <td colspan="5">NEXT TIGHTEN</td> </tr> <tr> <td colspan="5">NONE</td> </tr> <tr> <td colspan="5">NASA APPROVAL: <i>[Signature]</i></td> </tr> <tr> <td colspan="5">DATE: <i>[Date]</i></td> </tr> <tr> <td colspan="5">SCALE: 1:1</td> </tr> </table>				1003540	NEXT ASBY	USED ON	FRONT FRONT	APPLICATION	<table border="1"> <tr> <td>UPPER OF THIS SPECIFIED DIMENSIONS ARE IN DECIMALS OF INCHES</td> <td>INSTRUMENTATION LAB</td> <td>DATE</td> </tr> <tr> <td>TOLERANCES ON FRACTIONS DECIMALS ANGLES</td> <td>DATE</td> <td>DATE</td> </tr> <tr> <td>"020"</td> <td>CHECKED: <i>[Signature]</i></td> <td>DATE: <i>[Date]</i></td> </tr> <tr> <td>DO NOT SCALE THIS DRAWING</td> <td>APPROVAL: <i>[Signature]</i></td> <td>DATE: <i>[Date]</i></td> </tr> <tr> <td>MATERIAL</td> <td>APPROVAL: <i>[Signature]</i></td> <td>DATE: <i>[Date]</i></td> </tr> </table>					UPPER OF THIS SPECIFIED DIMENSIONS ARE IN DECIMALS OF INCHES	INSTRUMENTATION LAB	DATE	TOLERANCES ON FRACTIONS DECIMALS ANGLES	DATE	DATE	"020"	CHECKED: <i>[Signature]</i>	DATE: <i>[Date]</i>	DO NOT SCALE THIS DRAWING	APPROVAL: <i>[Signature]</i>	DATE: <i>[Date]</i>	MATERIAL	APPROVAL: <i>[Signature]</i>	DATE: <i>[Date]</i>	SEE NOTE 1					NEXT TIGHTEN					NONE					NASA APPROVAL: <i>[Signature]</i>					DATE: <i>[Date]</i>					SCALE: 1:1				
1003540	NEXT ASBY	USED ON	FRONT FRONT	APPLICATION																																																						
<table border="1"> <tr> <td>UPPER OF THIS SPECIFIED DIMENSIONS ARE IN DECIMALS OF INCHES</td> <td>INSTRUMENTATION LAB</td> <td>DATE</td> </tr> <tr> <td>TOLERANCES ON FRACTIONS DECIMALS ANGLES</td> <td>DATE</td> <td>DATE</td> </tr> <tr> <td>"020"</td> <td>CHECKED: <i>[Signature]</i></td> <td>DATE: <i>[Date]</i></td> </tr> <tr> <td>DO NOT SCALE THIS DRAWING</td> <td>APPROVAL: <i>[Signature]</i></td> <td>DATE: <i>[Date]</i></td> </tr> <tr> <td>MATERIAL</td> <td>APPROVAL: <i>[Signature]</i></td> <td>DATE: <i>[Date]</i></td> </tr> </table>					UPPER OF THIS SPECIFIED DIMENSIONS ARE IN DECIMALS OF INCHES	INSTRUMENTATION LAB	DATE	TOLERANCES ON FRACTIONS DECIMALS ANGLES	DATE	DATE	"020"	CHECKED: <i>[Signature]</i>	DATE: <i>[Date]</i>	DO NOT SCALE THIS DRAWING	APPROVAL: <i>[Signature]</i>	DATE: <i>[Date]</i>	MATERIAL	APPROVAL: <i>[Signature]</i>	DATE: <i>[Date]</i>																																							
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DO NOT SCALE THIS DRAWING	APPROVAL: <i>[Signature]</i>	DATE: <i>[Date]</i>																																																								
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DATE: <i>[Date]</i>																																																										
SCALE: 1:1																																																										

0654001

REVISIONS
REV. NO. DESCRIPTION DATE APPROVAL

NOTES

1. MATERIAL: .006/.008 THICK PLASTIC SHEET, SENSITIZED, DIMENSIONALLY STABLE PER L-F-340, TYPE IB, CLASS 2, STYLE IA
2. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
3. THE ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY A PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY. DIMENSIONAL VARIATIONS SHALL NOT EXCEED .001 INCH PER FOOT
4. CUT TO WITHIN .001 OF TRIM LINE
5. MAKE PHOTOGRAPHIC MASTER NEGATIVE AND POSITIVE FILMS TO DIMENSIONS SHOWN

QTY. REQD.	PART OR IDENTIFYING NO.	DESCRIPTION OR NOMENCLATURE	REV. NO.
LIST OF MATERIALS			
MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
INSULATOR, FRONT PROGRAM DISPLAY AGC DSKY MAIN & NAV			
1003542			
NEXT ASSY. USED ON			
APPLICATION			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES = .020 = = DO NOT SCALE THIS DRAWING MATERIAL SEE NOTE 1 HEAT TREATMENT NONE FINAL FINISH NONE			
NASA APPROVAL <i>[Signature]</i> DATE <i>12/15/66</i>			
MIT APPROVAL <i>[Signature]</i> DATE <i>12/15/66</i>			
SCALE 4/1			
SHEET 1 OF 1			



1. CAST 356-T6 AL PER QQ-A-601, CLASS 3M, COND T6
2. CLASSIFICATION OF CASTING PER MIL-C-6021, CLASS IIA
3. AS CAST SURFACE QUALITY 250
4. ALL FILLETS & ROUNDS TO BE .0616 R UNLESS OTHERWISE SPECIFIED
5. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

SECTION A-A

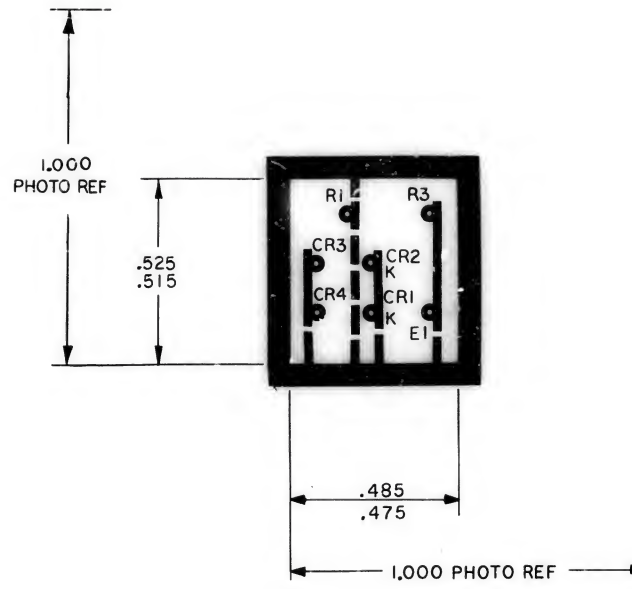
Q700 IDENTIFY: NO		PART OR DESCRIPTION: NO		NON-ELEMENT OR DESCRIPTION	
		LIST OF MATERIALS			
UNLESS OTHERWISE SPECIFIED OTHERS ARE IN INCHES POLAROID OR FRACTIONS DECIMALS $\frac{1}{16}$ 3/32 $\pm .03$ DO NOT SCALE THIS DRAWING EXACT SEE NOTE 1		B1 V INSTRUMENTATION LID DRAWN: <u>CHL</u> DATE: <u>10/1/83</u> CHECKED: <u>CHL</u> DATE: <u>10/1/83</u> APPROVAL: <u>CHL</u> APPROVAL: <u>CHL</u> (check)		MANNED SPACECRAFT CATCHER HOUTSIDE 1983 CASTING FRONT PANEL AGS DCK NAV	
1004341- NEXT ASST	USED ON	FINAL PRINT NOTE	BUREAU MET APPROVAL: <u>CHL</u> MET APPROVAL: <u>CHL</u>	COOR DENT NO J	DRAWING NO. 1004593
APPLICATION		NOTE	SCALE <u>1/1</u>	WT	SHEET 1

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY DISSEMINATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, PROVIDED, OR IS NOT SUPPLYING THE SAID DRAWING, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONFIRMING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THEREOF.

1004594

REVISIONS 05178

SYM DESCRIPTION DATE APPROVAL

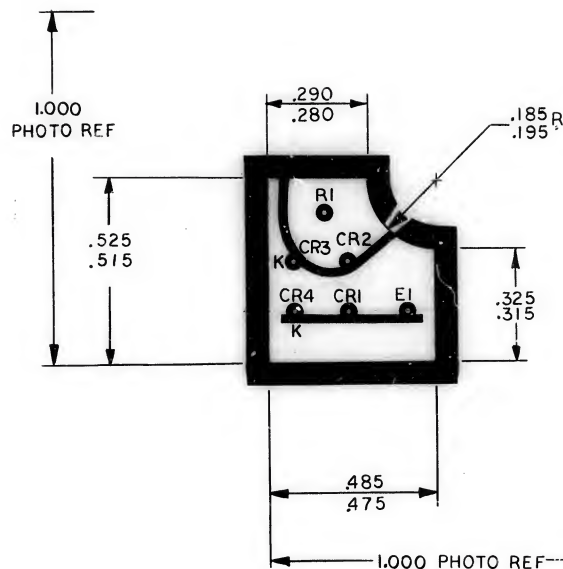


NOTES:

1. MATL.006/.008 THICK PLASTIC SHEET,SENSITIZED DIMENSIONALLY STABLE PER L-F-340,TYPE IB, CLASS II,STYLE IA
- 2.THE ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY A PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY.DIMENSIONAL VARIATIONS SHALL NOT EXCEED .001 INCH PER FOOT.
3. MAKE PHOTOGRAPHIC MASTER NEGATIVE AND POSITIVE FILMS TO DIMENSIONS SHOWN
4. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
5. BROKEN LINE DENOTES SLEEVING
6. ⬤ DENOTES .038/.042 DIA HOLE

QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIND NO.	
LIST OF MATERIALS							
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.				MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
DWS. NO. CORRECT				DATE 27 Nov 63			
DRAWN 200				CHECKED R. R. Bogni 2 DEC 63			
DO NOT SCALE THIS DRAWING				APPROVAL			
MATERIAL				APPR. VAL R. Bogni 12-14-63			
SEE NOTE 1				NASA APPROVAL 200 12/14/63			
HEAT TREATMENT				CODE IDENT NO. SIZE			
NONE				C			
FINAL FINISH				NASA DRAWING NO.			
NONE				1004594			
APPLICATION		NEXT ASSY USED ON		SCALE 4/1		WT	
						SHEET 1 OF 1	

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OMISSION, MISSTATEMENT, OR THE FACT THAT THE GOVERNMENT HAS FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING THE ART, RIGHTS, OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THEREOF.



NOTES

1. MATL:006/008 THICK PLASTIC SHEET, SENSITIZED DIMENSIONALLY STABLE PER L-F-340, TYPE IB, CLASS II, STYLE IA
2. THE ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY A PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY. DIMENSIONAL VARIATIONS SHALL NOT EXCEED .001 INCH PER FOOT.
3. MAKE PHOTOGRAPHIC MASTER NEGATIVE AND POSITIVE FILMS TO DIMENSIONS SHOWN
4. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
5. BROKEN LINE DENOTES SLEEVING
6. ● DENOTES .063/.067 DIA HOLE

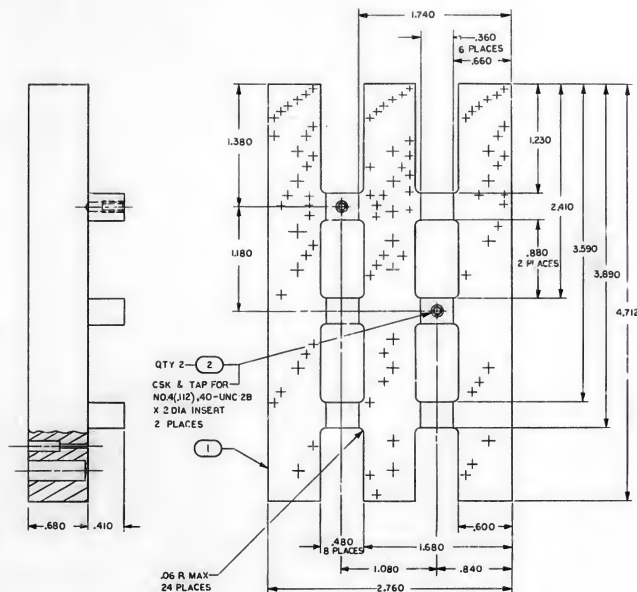
			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± ± ±
			DO NOT SCALE THIS DRAWING MATERIAL
			SEE NOTE 1
1003532			HEAT TREATMENT NONE
NEXT ASSY		USED ON	FINAL FINISH NONE
APPLICATION			

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DWS. NO. CONTRACT		DATE 12/24/63	
DRAWN J. R. Bogni		CHECKED J. R. Bogni	
APPROVAL		APPROVAL	
NASA APPROVAL		CODE IDENT NO. SIZE	
MIT APPROVAL		C	
MIT APPROVAL		NASA DRAWING NO. 1004595	
SCALE 4/1		SHEET 1 OF 1	

1004595

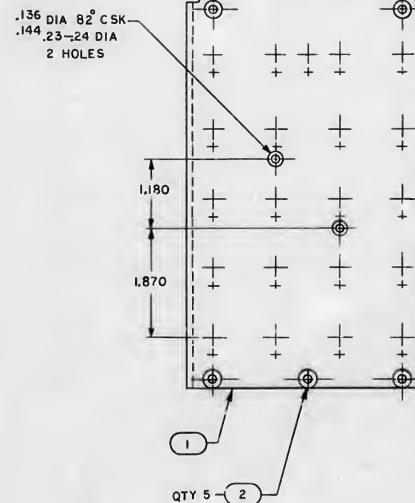
REVISIONS 05178

SYM DESCRIPTION DATE APPROVAL



2	MS220P-C0420	INSERT SCREW THREAD LOCKING	1
1	1004596-1	BLOCK	2
QTY	PART OR IDENTIFYING NO	NAMES/ALIAS OR DESCRIPTION	FIG NO
LIST OF MATERIALS			
WITH INSTRUMENTATION LAB CONTRACT ESTIMATE		MANNED SPACECENTER CENTER HOUSTON, TEXAS	
FIG NO	DESCRIPTION		
015	DATE GATEWAY CHANGED <i>20-09-2008</i>	BL OCK COMPONENT KEYBOARD MODULE AGC DSKY, MAIN & NAV	
APPROVAL	<i>20-09-2008</i>		
APPROVAL	<i>20-09-2008</i>		
APPROVAL	<i>20-09-2008</i>		
NAME APPROVAL	<i>20-09-2008</i>	CODE REQ NO	SIZE
NET APPROVAL	<i>20-09-2008</i>	NAME (PRINTING NO)	
		1004596	
SCALE 2/1		ET	SHEET 1 OF

REVISIONS 05563			
SYM	DESCRIPTION	DATE	APPROVAL



1. MAT'L : .090 THK AL5052-H32 PEK Q-Q-A-318,TEMPER H32
2. REMOVE BURRS AND SHARP EDGES
3. INSTALL FIND 2 AND ANODIZE PER MIL-A-8625,TYPE II,DYED BLACK
1. MARK .08 HIGH WHITE PER ND1002019 & ND1002122,TYPE II,CLASS I, APPROX WHERE SHOWN
5. MARK .12 HIGH WHITE PER ND1002019 & ND1002122,TYPE II,CLASS I
6. ALL BEND R.05/029
7. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS
PRESCRIBED BY MIL-D-70327

5	1004501	SPACER	
	1004598-1	PANEL, FRONT	
QTY REQD	PART OR IDENTIFYING NO.	NAME OR DESCRIPTION	FIG. NO.

LIST OF MATERIALS

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
MTT INSTRUMENTATION LAB Chattanooga, Tenn. DWS, JR. CONTRACT	PANEL, FRONT KEYBOARD MODULE AGC DSKY MAIN & NAV
DRAWN <i>WBS</i> DATE <i>1/26/68</i> CHECKED <i>WBS</i> BY <i>WBS</i> APPROVAL <i>WBS</i> APPROVAL <i>WBS</i>	CODE IDENT NO. <i>1</i> SIZE <i>1</i> N. SA DRAWING NO. <i>1004598</i> NASA APPROVAL <i>WBS</i> MIT APPROVAL <i>WBS</i> MIT APPROVAL <i>WBS</i>
SCALE 1 / 1 WT <i>1</i> SHEET 1 OF 1	

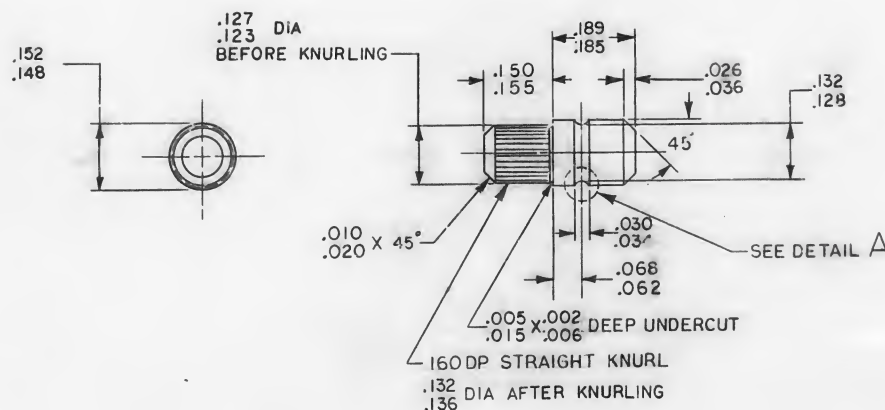
MASTERS

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A GOVERNMENT-RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT HAS FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONFIRMING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THEREBY.

1004599

REVISIONS 05563

SYM DESCRIPTION DATE APPROVAL



DETAIL A
SCALE 10/1

NOTES:

1. MATL: 303 CRES PER QQ-S-763, CLASS 303, COND A
2. REMOVE ALL BURRS AND BREAK SHARP EDGES
3. PASSIVATE PER MIL-F-140/2
4. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
		TOLERANCES ON
		FRACTIONS DECIMALS ANGLES ± ± ± 5°
		DO NOT SCALE THIS DRAWING
		MATERIAL
		SEE NOTE 1
1004600		HEAT TREATMENT
		NONE
NEXT ASSY	USED ON	FINAL FINISH
APPLICATION		SEE NOTE 3

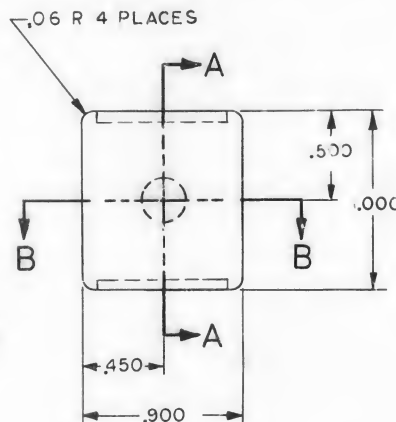
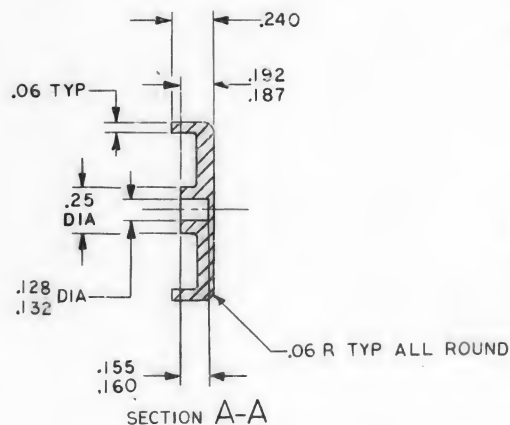
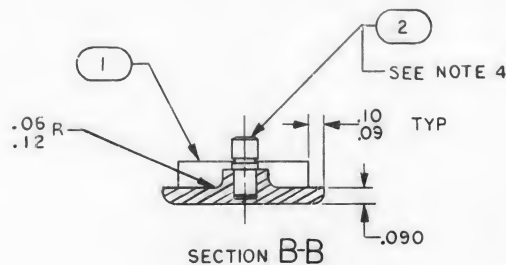
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DWS. NO. CONTRACT		PIN	
DRAWN <i>J.R. Brown</i> DATE 10-63		AGC DSKY, MAIN & NAV	
CHECKED <i>J.R. Brown</i> 17 DEC 63			
APPROVAL			
APPROVAL <i>Edgar Hail</i> 29 Jan 64			
NASA APPROVAL <i>W. H. Hall</i> 1/25/64		CODE IDENT NO.	SIZE
MIT APPROVAL			C
MIT APPROVAL <i>W. H. Hall</i> 29 Jan 64		SCALE 5/1	WT
		SHEET	OF

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT HAS FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY INDICATION OR OTHERWISE AS AN IMPLICIT OR EXPLICIT LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THEREBY.

1004600

REVISIONS 05563

SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 07832 DR W.D. B. CHK A.R.B.	4/14/64	A.W.C.
B	REVISED PER TDRR 20824 DR R.C. Taylor CHK R.B.B. 027	9/13/65	R.B.B.



NOTES

1. MATL: ACRYLIC PER MIL-P-21105 TYPE II
2. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
3. AFTER ASSEMBLING OF FIND NO. 2 TO FIND NO. 1, FIND NO. 2 IS TO WITHSTAND A PULLOUT FORCE OF 15 LB MIN
4. BOND FIND NO. 2 IN FIND NO. 1 USING ND 1002004
5. COLOR OR FED-STD-595 COLOR CHIP NO. 37875
6. BREAK ALL SHARP EDGES

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON
		FRACTIONS DECIMALS ANGLES
		± .02 ± .005 ±
		DO NOT SCALE THIS DRAWING
		MATERIAL
		SEE NOTE 1
		HEAT TREATMENT
		NONE
		FINAL FINISH
		NONE
1004602		
NEXT ASSY	USED ON	
APPLICATION		

I	1004599	PIN	2
I	1004600-1	BUTTON, KEYBOARD	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN <i>R.C. Taylor</i> DATE <i>10 DEC 63</i> CHECKED <i>R.B. Bogni</i> DATE <i>18 DEC 63</i> APPROVAL <i>R.C. Taylor</i> APPROVAL <i>R.B. Bogni</i>		BUTTON, KEYBOARD MODULE AGC DSKY, MAIN & NAV	
NASA APPROVAL <i>R.C. Taylor</i> DATE <i>4/15/64</i> MIT APPROVAL <i>R.C. Taylor</i> DATE <i>4/15/64</i> MIT APPROVAL <i>R.C. Taylor</i> DATE <i>4/15/64</i>		CODE IDENT NO. SIZE 80230 C	NASA DRAWING NO. 1004600
		SCALE 2/1	WT SHEET 1 OF 1

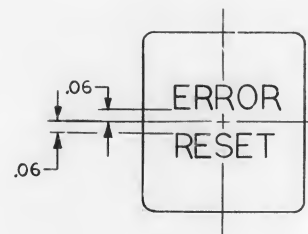
NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FORWARDED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED AS IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL, ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

1004602

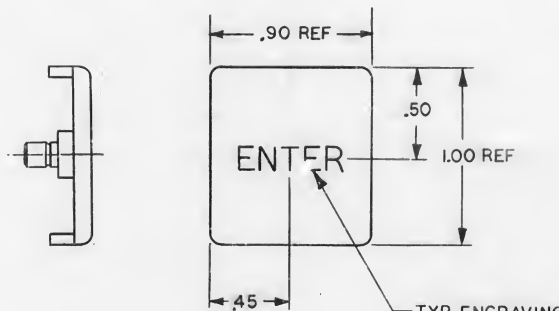
REVISIONS 05563

SYM DESCRIPTION DATE APPROVAL

PART NO.	ENGRAVING	VIEW	HEIGHT
1004602-1	CLEAR	1	.12
-2	VERB	1	.12
-3	NOUN	1	.12
-4	ENTER	1	.12
-5	+	1	.38
-6	7	1	.12
-7	8	1	.38
-8	9	1	.38
-9	-	1	.38
-10	4	1	.12
-11	5	1	.12
-12	6	1	.12
-13	0	1	.12
-14	1	1	.12
-15	2	1	.12
-16	3	1	.12
-17	TEST ALARM	2	.12
-18	ERROR RESET	2	.12
-19	KEY RLSE	2	.12



VIEW 2



VIEW 1

TYP ENGRAVING
SEE TABLE
SEE NOTE 2

NOTES

1. MATL: MAKE FROM PART NO. 1004600
2. ENGRAVE CHARACTERS .010/.016 DEEP PER ND1002019 AND FILL FLUSH TO SURFACE WITH MATERIAL PER ND1002130, COLOR BLACK PER FED-STD-595, CHIP NO 37038
3. INTERPRET DRAWING IN ACCORDANCE TO STANDARDS PRESCRIBED BY MIL-D-70327

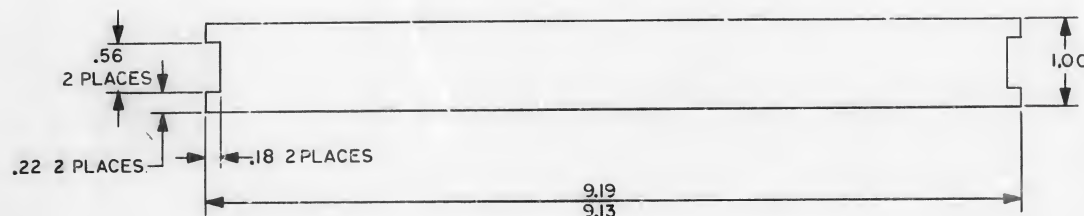
QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIND NO.
LIST OF MATERIALS						
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS				MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DWS. NO. DATE 1/2/64 CHECKED: J.P. Bogni 17 DEC 63 APPROVAL: J.P. Bogni 17 DEC 63 APPROVAL: J.P. Bogni 17 DEC 63				DRAWN: J.P. Bogni 17 DEC 63 DATE: 17 DEC 63 CHECKED: J.P. Bogni 17 DEC 63 APPROVAL: J.P. Bogni 17 DEC 63		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± ±.02 ±				DO NOT SCALE THIS DRAWING		
MATERIAL				SEE NOTE 1		
HEAT TREATMENT				NONE		
FINAL FINISH				NONE		
1003548				NASA APPROVAL: J.P. Bogni 17 DEC 63		
NEXT ASSY USED ON				MIT APPROVAL: J.P. Bogni 17 DEC 63		
APPLICATION				MIT APPROVAL: J.P. Bogni 17 DEC 63		
CODE IDENT NO. SIZE				NASA DRAWING NO.		
SCALE 2/1				1004602		
WT				SHEET 1 OF 1		

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1004603

REVISIONS 05748

SYM DESCRIPTION DATE APPROVAL



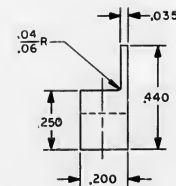
NOTES

1. MATL: .006/.008 THICK PLASTIC SHEET, SENSITIZED, DIMENSIONALLY STABLE PER L-F-340, TYPE IB, CLASS 2, STYLE 1A
2. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DWC NO. CONTRACT		DATE 12 DEC 63	
DRAWN P. Brown		CHECKED J. R. Brown	
APPROVAL		APPROVAL E. C. Hall	
NASA APPROVAL		CODE IDENT NO.	SIZE
MIT APPROVAL		1004603	C
MIT APPROVAL		SCALE 1/1	WT
SHEET 1		OF 1	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
TOLERANCES ON		
FRACTIONS	DECIMALS	ANGLES
±	±.02	±
DO NOT SCALE THIS DRAWING		
MATERIAL		
SEE NOTE 1		
1003133	HEAT TREATMENT	
NEXT ASSY	NONE	
USED ON	FINAL FINISH	
APPLICATION	NONE	

MUSTEN



1. MATL: PLASTIC SHEET PER MIL-P-18177,
TYPE GEE

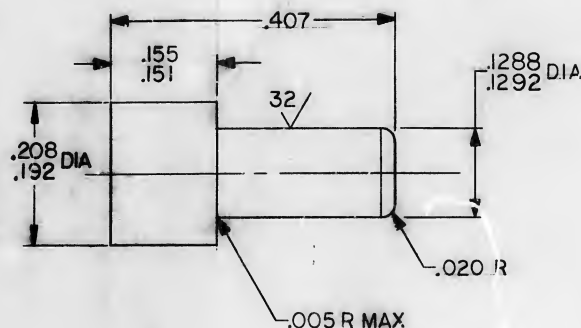
2. INTERPRET DRAWING IN ACCORDANCE WITH
STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FR NO	
				LIST OF MATERIALS			
		M I T INSTRUMENTATION LAB CHAMBERS, MASS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
		Dwg. No. CONTRACT					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON		DRAWN <u>22 December 62</u> DATE <u>12/26/62</u> CHECKED <u>AR/RS</u>		BLOCK, INSULATOR POWER SUPPLY AGC DSKY, MAIN & NAV			
FRACTIONS DECIMALS ANGLES ± ° ' "		APPROVAL <u>AR/RS</u> <u>12/26/62</u>					
DO NOT SCALE THIS DRAWING		APPROVAL <u>AR/RS</u> <u>12/26/62</u>					
MATERIAL		NASA APPROVAL <u>AR/RS</u> <u>12/26/62</u>		CODE IDENT. NO.		SIZE	
SEE NOTE 1		MIT APPROVAL <u>AR/RS</u> <u>12/26/62</u>		D		NASA DRAWING NO.	
HEAT TREATMENT NONE		MIT APPROVAL <u>AR/RS</u> <u>12/26/62</u>		1003450		1004604	
NEXT ASSY USED ON		FINAL FINISH		SCALE <u>4/1</u>		SHEET <u>1</u> OF <u>1</u>	
APPLICATION		NONE					

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1004617

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
—	INITIAL RELEASE PER TDRR 06811	7/10/61	WJR



NOTES

- MATL: 303 SST PER QQ-S-763, CL303, COND A
- REMOVE BURRS AND SHARP EDGES
- UNLESS OTHERWISE SPECIFIED, SURFACE QUALITY $\sqrt{125}$
- PASSIVATE PER MIL-F-14072
- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

MASTER

QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIND NO.	
LIST OF MATERIALS							
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.				MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
DWS. NO. CONTRACT				DRAWN: R. Dominguez DATE 3 FEB 60 CHECKED: H.R. Bogan 5 FEB 60 APPROVAL: <i>[Signature]</i> APPROVAL: <i>[Signature]</i>			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm $\pm .005$ \pm DO NOT SCALE THIS DRAWING MATERIAL SEE NOTE 1				CODE IDENT NO. SIZE NASA APPROVAL <i>[Signature]</i> 1/4/60 MIT APPROVAL MIT APPROVAL <i>[Signature]</i>			
HEAT TREATMENT NONE				SCALE 8/1			
FINAL FINISH SEE NOTE 4				NOMENCLATURE OR DESCRIPTION PIN, LOCATING POWER SUPPLY AGC DSKY NAV & MAIN			
1003532		NEXT ASSY USED ON		C		NASA DRAWING NO. 1004617	
APPLICATION				SHEET		OF	

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE RELEASED BY IMPLICATION OR OTHERWISE AS AN ENDORSEMENT OR RECOMMENDATION BY THE GOVERNMENT, OR AS A GUARANTEE, OR AS CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY BE, IN ANY WAY BE RELATED THERETO.

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
-		INITIAL RELEASE CLASS A PER TDRR 20236			6-23-65	

REQUIREMENTS:

1. GENERAL:

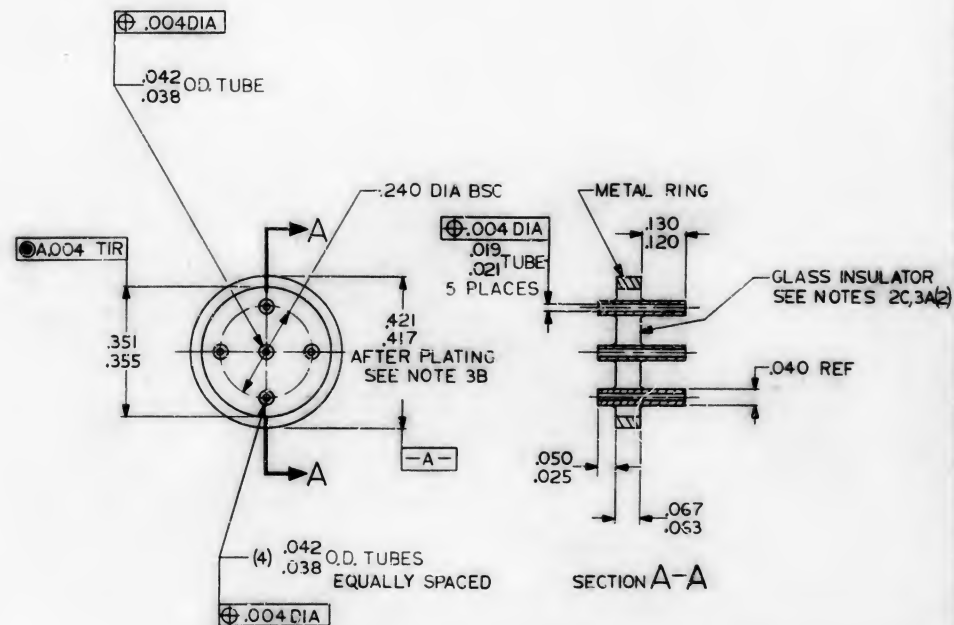
- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
- SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS AS CONTAINED IN ND 1015404, CLASS 3.
- MARKING: UNITS SHALL BE MARKED PER ND 1002019 WITH THE PART NUMBER (DRAWING NUMBER AND REVISION LETTER).
- PREPARATION FOR DELIVERY SHALL BE IN ACCORDANCE WITH ND 1002215, CLASS 1, CODE 1.
 - MARKING OF SHIPPING CONTAINERS SHALL CONFORM TO THE MARKING OF UNIT AND INTERMEDIATE PACKAGES AND THE METHODS OF MARKING SPECIFIED IN ND 1002215.

2. ACCEPTANCE AND INSPECTION: SAMPLE

- MARKING AND PREPARATION FOR DELIVERY AS SPECIFIED ABOVE.
- DIMENSIONS AND TOLERANCES AS SPECIFIED HEREIN.
- HERMETIC SEAL BETWEEN METAL AND GLASS SHALL MEET THE REQUIREMENTS OF MIL-S-8104, GRADE A.
- LEAKAGE RATE: THE LEAKAGE RATE SHALL NOT EXCEED ONE STANDARD CUBIC CENTIMETER OF AIR/YEAR/INCH OF SEAL AT A PRESSURE DIFFERENTIAL OF ONE ATMOSPHERE.
- VENDOR SUPPLIED DATA: THE FOLLOWING DATA SHALL BE SUPPLIED BY THE VENDOR WITH EACH SHIPMENT.
 - A CERTIFICATE OF COMPLIANCE WITH MIL-S-8484 GRADE A.
 - A CERTIFICATE OF COMPLIANCE WITH ND 1015404 CLASS 3.
 - LEAKAGE RATE TEST DATA.
 - A CERTIFICATE OF COMPLIANCE WITH FINISH REQUIREMENTS.

3. DESIGN:

- MATERIAL:
 - MOUNTING RING AND TUBES: METAL ALLOY SUITABLE FOR THE PURPOSE.
 - INSULATOR: GLASS SUITABLE FOR THE PURPOSE.
- FINISH: METAL SURFACES SHALL BE TIN PLATED PER MIL-T-10727, TYPE I (ELECTRODEPOSITED). THICKNESS OF TIN PLATE SHALL BE .0004 TO .0006 INCH.



PROCURE ONLY FROM APPROVED SOURCES LISTED IN ND 1002034 FOR THIS DRAWING.

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ f RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm \pm \pm DO NOT SCALE THIS DRAWING MATERIAL
		SEE NOTE
NEXT ASSY	USED ON	
APPLICATION		

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.		
LIST OF MATERIALS						
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.			MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
DRAWN <i>J. G. [signature]</i> 1/27/65			HEADER, FEED THRU TERMINAL HERMETICALLY SEALED SPECIFICATION CONTROL DRAWING			
CHECKED <i>J. G. [signature]</i> 1/27/65						
APPROVED <i>Branch Hall</i> 2/1/65						
APPROVED <i>Branch Hall</i> 2/1/65						
APPROVED MIT <i>W. [signature]</i> 2/2/65			CODE IDENT NO.	SIZE	DRAWING NO.	
			80230	C	1006354	
APPROVED MSC <i>W. [signature]</i> 4/2/65			SCALE	NONE		
DATE					SHEET	OF

NOTICE - NASA GOVERNMENT DRAWING SPECIFICATIONS - OTHER DATA AND DATA FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A SPECIFICALLY RELATED GOVERNMENT PROCUREMENT OPERATION. THE UNITED STATES GOVERNMENT HEREBY DISCLAIMS ANY RESPONSIBILITY FOR THE RELIABILITY OF THE INFORMATION AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FORWARDED, OR MAY TO BE OBTAINED BY APPLICATION OR OTHERWISE AS IN ANY DRAWING LICENSED THE UNITED STATES GOVERNMENT IN CONNECTION, OR OTHERWISE, FOR ANY RIGHTS OR PRIVILEGES TO REPRODUCE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

7289001

REVISIONS 01768			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 04908	11/1/10	SP

REQUIREMENTS:

1. GENERAL:

- A. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
- B. SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS AS CONTAINED IN ND 1015404, CLASS 3.
- C. MARKING: REELS OR SPOOLS AND UNIT PACKAGING SHALL BE MARKED IN ACCORDANCE WITH MIL-STD-129 WITH THE MANUFACTURER'S NAME, PART NUMBER, ITEM DESCRIPTION, LENGTH AND WIDTH, NASA DRAWING NUMBER, REVISION LETTER, DASH NUMBER AND DATE OF EXPIRATION.

2. ACCEPTANCE AND INSPECTION: (SAMPLE)

- A. MECHANICAL PROPERTIES:
 - (1) THICKNESS WITH ADHESIVE, LESS PROTECTIVE COVERING: 0.0075 PLUS OR MINUS 0.0005 INCH.
 - (2) LENGTH: 1070 FEET PLUS 1 FOOT MINUS ZERO.

3. DESIGN:

- A. MECHANICAL PROPERTIES:
 - (1) ADHESIVE STRENGTH: 25 POUNDS PER SQUARE INCH MINIMUM.
 - (2) ELONGATION AT BREAK: 400 PERCENT.
- B. ELECTRICAL CHARACTERISTICS:
 - (1) VOLTAGE STRENGTH: 400 VOLTS PER MIL MINIMUM.
 - (2) RESISTIVITY: 7×10^{12} OHMS PER CUBIC CENTIMETER.
 - (3) DIELECTRIC CONSTANT: 2.05 AT 1 KILOCYCLE.
- C. THIS TAPE SHALL CONSIST OF A MYLAR BASE WITH AN ADHESIVE COATING ON ONE SIDE PROTECTED WITH A REMOVABLE PROTECTIVE COVERING.
- D. STORAGE LIFE: THIS TAPE SHALL SHOW NO EVIDENCE OF DETERIORATION AFTER STORAGE FOR ONE YEAR MINIMUM AT 77 DEGREES FAHRENHEIT.

DASH NO.	WIDTH
-1	1.500 \pm .005
-2	0.600 \pm .005
-3	0.290 \pm .010
-4	0.800 \pm .005
-5	1.400 \pm .005
-6	1.650 \pm .010
-7	0.250 \pm .005
-8	0.400 \pm .010
-9	0.340 \pm .010
-10	1.000 \pm .010
-11	.700 \pm .005
-12	.140 \pm .010

PROCURE ONLY FROM APPROVED SOURCES LISTED IN ND 1002034 FOR THIS DRAWING.

QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIND NO.	
LIST OF MATERIALS							
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.				MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
DRAWN <i>[Signature]</i> DATE <i>10/1/63</i>				INSULATION TAPE, ELECTRICAL			
CHECKED <i>[Signature]</i> DATE <i>10/1/63</i>				PRESSURE SENSITIVE ADHESIVE (MYLAR)			
APPROVAL <i>[Signature]</i>				SPECIFICATION CONTROL DRAWING			
NASA APPROVAL <i>[Signature]</i>				CODE IDENT NO.		SIZE	
MIT APPROVAL <i>[Signature]</i>				SCALE NONE		WT	
NEXT ASSY				USED ON		APPLICATION	
HEAT TREATMENT				FINAL FINISH			
SEE NOTES							
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm \pm \pm							
DO NOT SCALE THIS DRAWING MATERIAL							

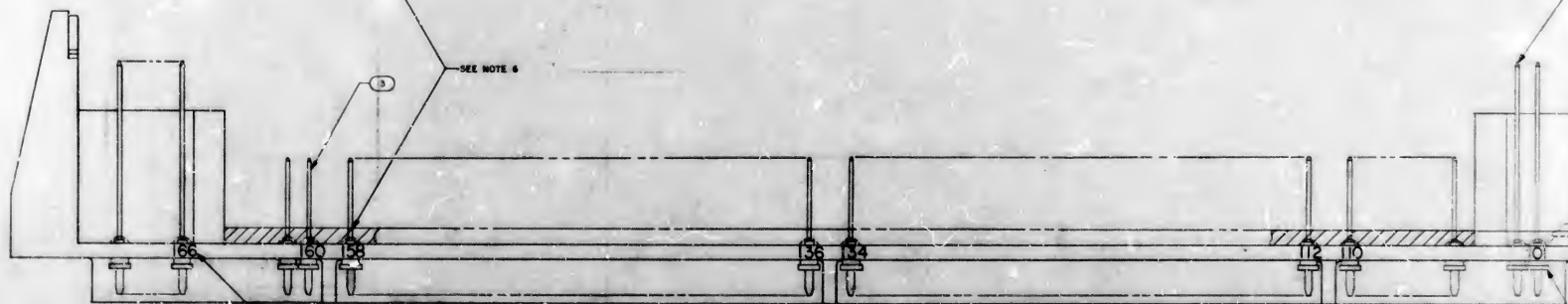
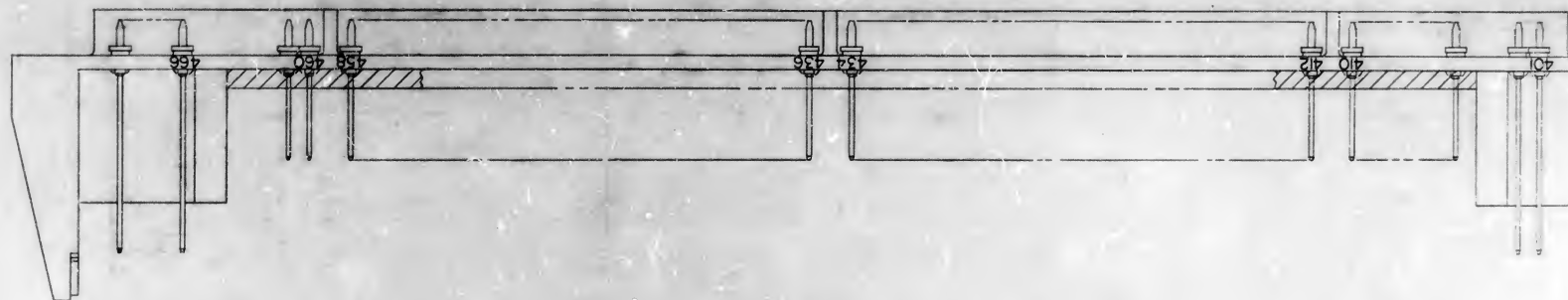
1006826

6

5

4

3



NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-73327
2. ASSEMBLY: FIND NO. 2, FIND NO. 3, AND FIND NO. 4 TO FIND NO. 1 PER ND000286
3. MARK $\frac{1}{16}$ HIGH WHITE CHARACTERS PER ND000222
4. TYPE II CLASS 2 PER ND000008 USING R/A 106271-1
5. SIDE VIEW WITH PART NUMBER PER ND000286
6. SEAL FIND NO. 1, 2, 3, 4 TO FIND NO. 1 PER ND000004, TYPE II
7. BONDING MATERIAL TO BE APPLIED TO INDICATED AREAS PER ND000004 USING TYPE II SEMI-RIGID MATERIAL, AND TO BE FREE OF BONDING MATERIAL BEYOND INDICATED DIMENSIONS

SEE NOTE 6

SEE NOTE 3

2003110

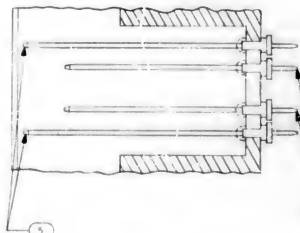
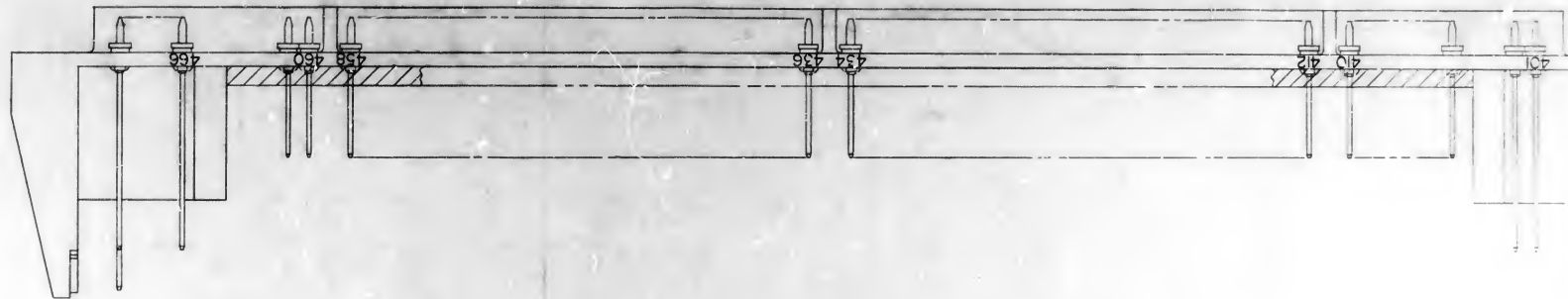
A

6

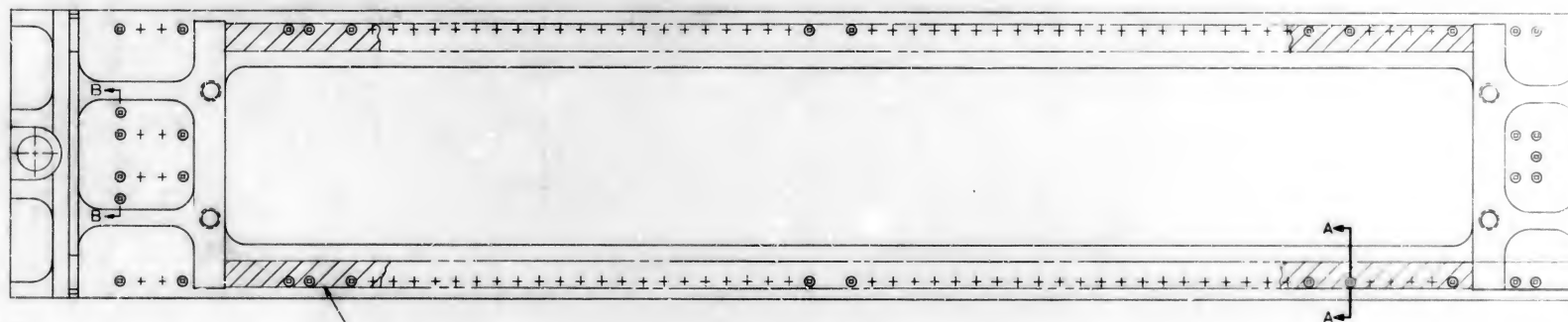
5

4

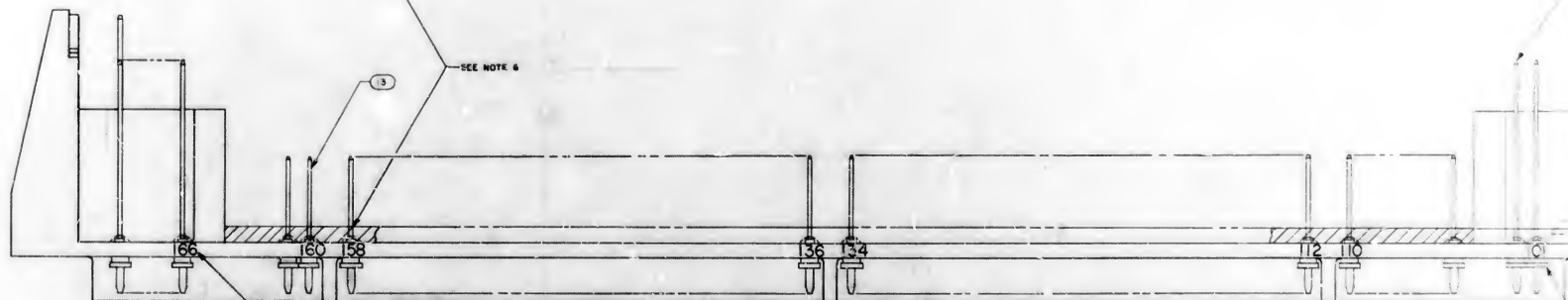
3



SECTION B-B



SEE NOTE 6



SEE NOTE 3

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ASSEMBLE FIND NO. 2, FIND NO. 3, FIND NO. 4 AND FIND NO. 5 TO FIND NO. 1 PER ND100238
3. MARK $\frac{1}{16}$ HIGH WHITE CHARACTER, PER ND1002122 TYPE II CLASS 2 PER ND1002009 USING NK1006271-1
4. IDENTIFY WITH PART NUMBER PER ND1002009
5. SEAL FIND NO. 3, 4 & 5 TO FIND NO. 1 PER ND1006004, TYPE II
6. BONDING MATERIAL TO BE APPLIED TO INDICATED AREAS PER ND1002004 USING TYPE II SEMI-RIGID MATERIAL, PINS TO BE FREE OF BONDING MATERIAL BEYOND INDICATED DIMENSIONS

2003110

B

6

5

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3

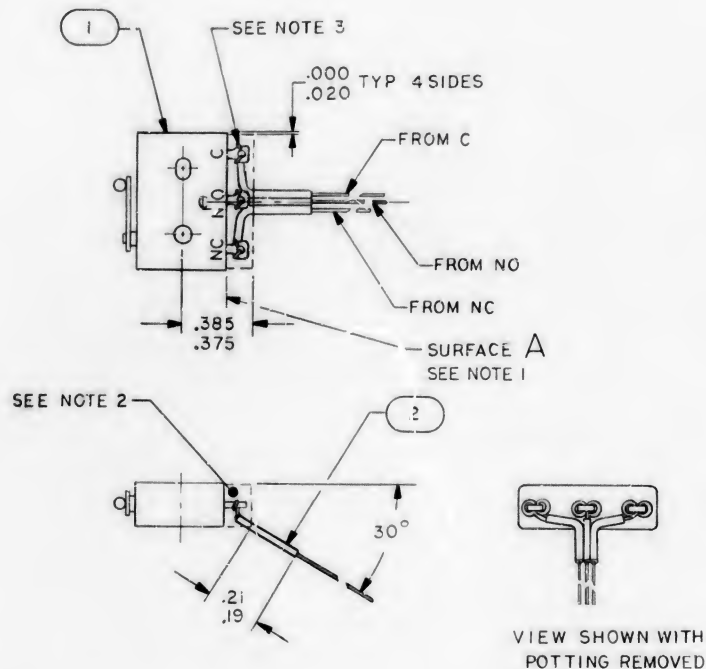
NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A SPECIFICALLY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT REQUESTS NOTICE OF REPRODUCTION AND THE FACT THAT THE GOVERNMENT MAY HAVE FORNULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA OR NOT TO BE DEBARRED BY IMPLICATION OR OTHERWISE AS IS ANY BARRED LICENSEE THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO REPRODUCE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THEREIN.

2003923

REVISIONS

20855

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED



NOTES

1. APPLY PRIMER TO SURFACE A AND SOLDERED TERMINALS USING 1006341
2. ENCAPSULATE PER ND1002009 TYPE C OR D
3. WRAP FIND NO. 2 TO TERMINALS OF FIND NO. 1 AS SHOWN AND SOLDER PER ND1002071 USING SOLDER PER ND1002075
4. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
5. IDENTIFY WITH DRAWING NO. AND REVISION PER ND1002019

I	2004957		CABLE, SPECIAL PURPOSE ELECTRICAL	2
I	1010901-2		SWITCH, SENSITIVE	1
QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

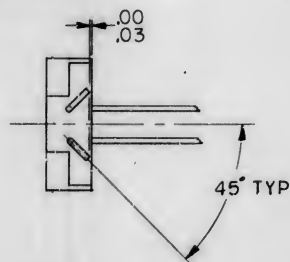
011		LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
DRAWN	<i>K. J. Thompson</i>	3 APR 65	SWITCH, POTTED ASSEMBLY SWITCH, PUSH BUTTON AGC DSKY		
CHECKED	<i>W. J. Rogers</i>	18 APR 65			
APPROVED	<i>W. J. Rogers</i>	18 APR 65			
APPROVED	<i>E. B. Hall</i>	12 JUL 65			
APPROVED MIT	<i>W. J. Rogers</i>	21 JUL 65	CODE IDENT NO.	SIZE	DRAWING NO.
			80230	C	2003923
APPROVED MSC	<i>W. J. Rogers</i>	21 JUL 65	SCALE	SHEET 1 OF 1	
		DATE	2/1		

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ f RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm \pm \pm 5° DO NOT SCALE THIS DRAWING	
MATERIAL	
2003924	
NEXT ASSY	USED ON
APPLICATION	

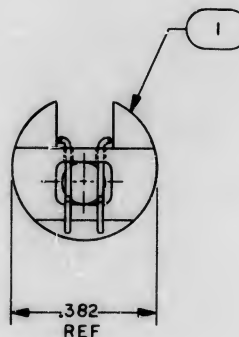
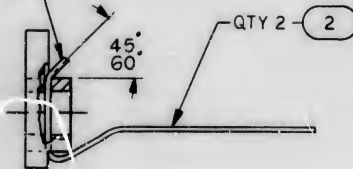
NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OMISSION, INADEQUACY, OR THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FORWARDED, OR IN ANY WAY SUPPLIED THE SAME DRAWING, SPECIFICATION, OR OTHER DATA IS NOT TO BE REGARDED AS IMPLICATION OR OTHERWISE AS IN ANY MANNER LIMITING THE RIGHTS OF ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO REPRODUCE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THEREBY.

REVISIONS 21877

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED



SEE NOTE 3



NOTES

1. IDENTIFY WITH PART NO PER ND1002019
2. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
3. CRIMP FIND NQ2 AS SHOWN

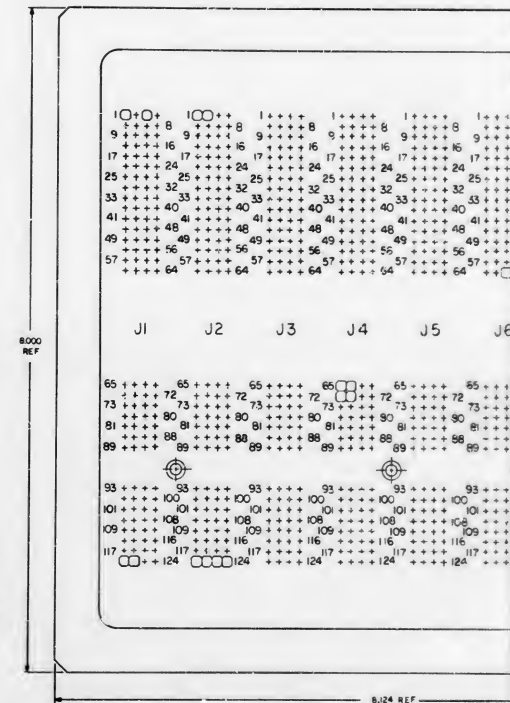
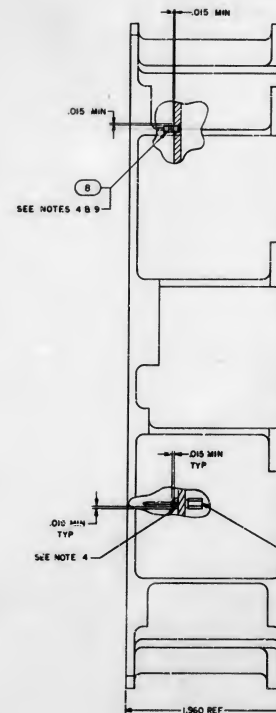
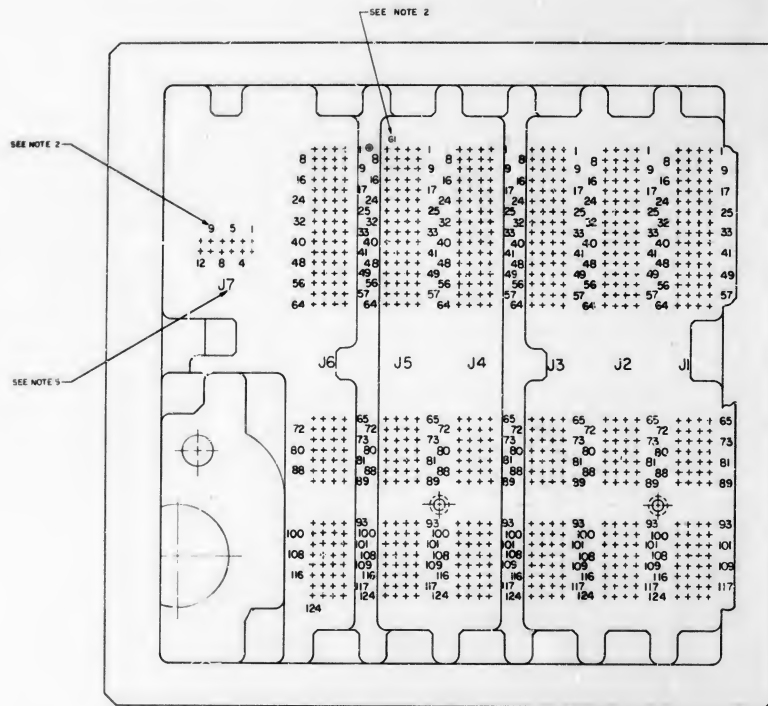
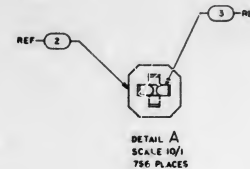
2	2004967	WIRE, SOCKET CONTACT	2
1	2004964	DISK, RECEPTACLE	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
011			

LIST OF MATERIALS

MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN <i>K. J. Simpson</i> 12 JUL 65		DISK ASSEMBLY	
CHECKED <i>R. J. Simpson</i> 12 JUL 65		PUSH BUTTON SWITCH	
APPROVED <i>R. J. Simpson</i> 12 JUL 65		AGC DSKY	
APPROVED <i>R. J. Simpson</i> 12 JUL 65		CODE IDENT NO. 80230	SIZE C
APPROVED <i>R. J. Simpson</i> 12 JUL 65		DATE	DRAWING NO. 2003934
SCALE 4/1		SHEET 1 OF 1	

COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE	LENGTH	TO	REMARKS
61		# J1-3	1	WHT	26	AR	J2-3	
62		# J3-3	1	WHT	26	AR	J5-3	
63		# J5-10	1	WHT	26	AR	J6-10	
64		# J2-10	1	WHT	26	AR	J3-10	
65		# J3-64	6	WHT	26	AR	J5-9	

* DENOTES WIREWRAP MUST BE FIRST LEVEL

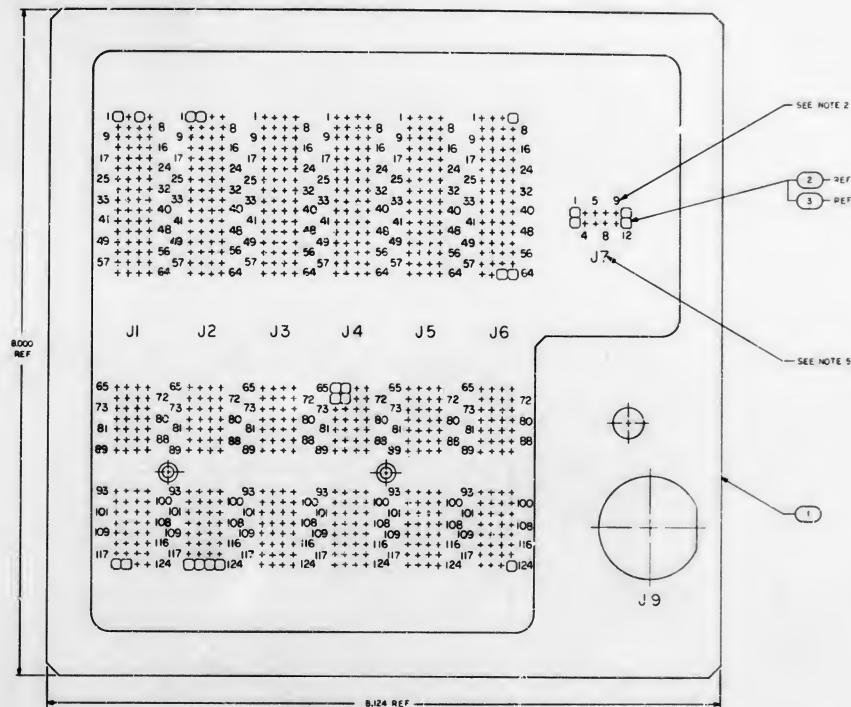
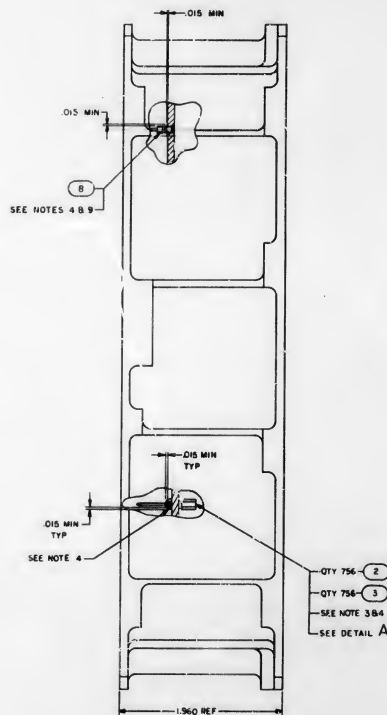


NOTES

- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
- MARK .070/.050 HIGH BLACK CHARACTERS PER NDI002019 AND NDI00212, TYPE II, CLASS 2, USING INK 0002711, CENTRALIZE AS SHOWN
- ASSEMBLY FIND NO. 2 AND FIND NO. 3 TO FIND NO. 1 PER NDI002136
- SEAL FIND NO. 2, FIND NO. 1 AND FIND NO. 8 TO FIND NO. 1 PER NDI002004, TYPE II
- MARK .150/.100 HIGH BLACK CHARACTERS PER NDI002019 AND NDI00212, TYPE II, CLASS 2, USING INK 0002711, CENTRALIZE AS SHOWN
- IDENTIFY WITH PART NO. PER NDI002019
- A.R. DENOTES AS REQUIRED
- WIREWRAP USING CHART AND WIREWRAP CARD DECK 2005906 AND PER NDI002019 EXCEPT FIND NO. 8 TO HAVE 8 MIN TO 8 MAX TURNS OF UNINSULATED WIRE, 1/2 TO 1 1/2 TURNS OF INSULATED WIRE, STRIP LENGTH OF .1187 TO .1000, STRIP POWER OF 5.0 MIN.
- WIREWRAP FIND NO. 8 TO HAVE 8 MIN TO 8 MAX TURNS OF UNINSULATED WIRE, 1/2 TO 1 1/2 TURNS OF INSULATED WIRE, STRIP LENGTH OF .1187 TO .1000, STRIP POWER OF 5.0 MIN.
- MOUNTING TURRET FOR FIND NO. 8 TO BE 15-20 INCH OUNCES

DETAIL A
SCALE 10/1
756 PLACES

* DENOTES WIREWRAP MUST BE FIRST LEVEL.

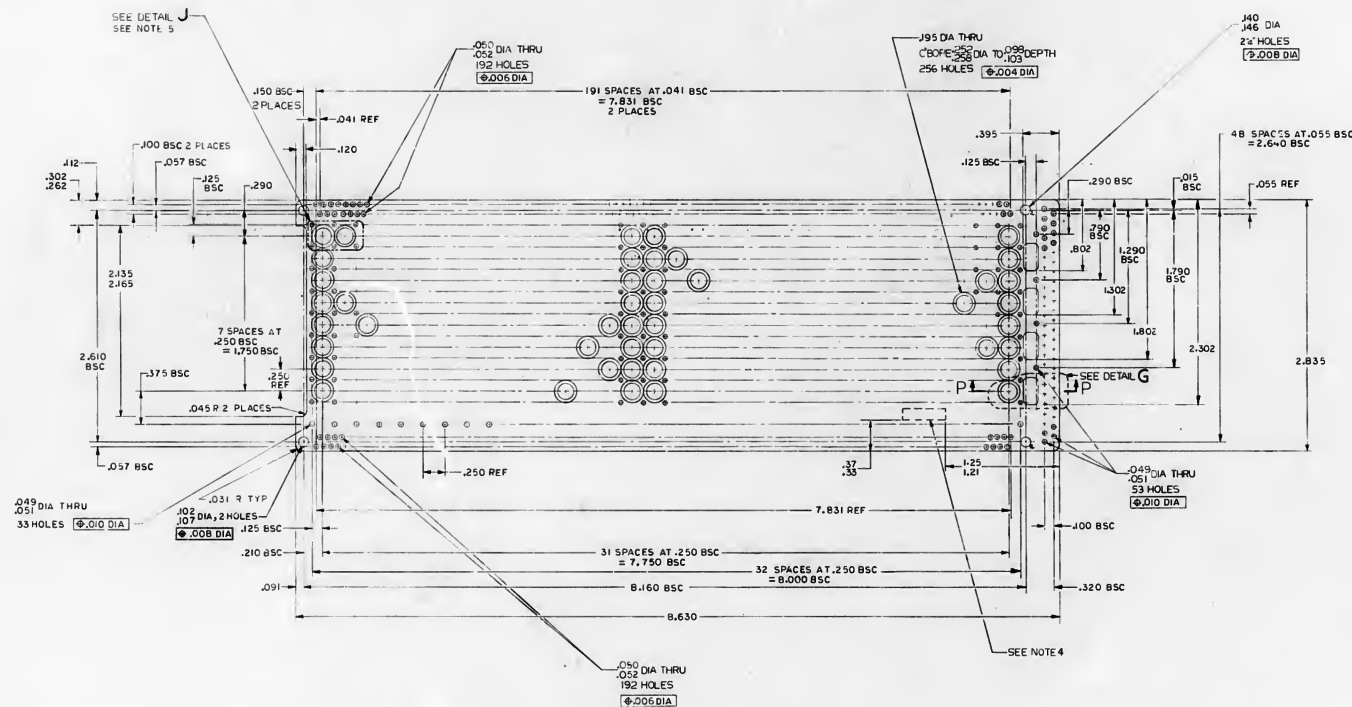


X	200551	INTERCONNECTING DIAGRAM	RE
X	2005506	WIRE WRAP CARD DECK	
1	2004038	TERMINAL THREADED	8
2	2004260	300-POB BRDS	3
AR	K10807-22	WIRE, E, EC	6
AR	K10807-22	WIRE, E, EC	6
AR	K106732-1	WIRE, ELEC	3
75C	100781-4	CONTACT, WRAPPOST-FEMALE, MINATURE	3
75C	100674	INSULATOR, WRAPPOST-FEMALE, MINATURE	2
2004974-01		PLATE, IDN	
QTY	PART OR	NOMINATION OR	NO
REQD	DESCRIPTION NO	DESCRIPTION	

[illegible]

Technical drawing of a mechanical part. The top view shows a cylindrical component with a central hole. A section line P-P is indicated. A detail view of the hole is shown below, with dimensions: .020 R ±.010 ALL AROUND, .12, .300, .05, .03, and R TYP. A note 'RAD REF SEE NOTE 3' points to a fillet on the top view.

DETAIL G
SCALE 4/1



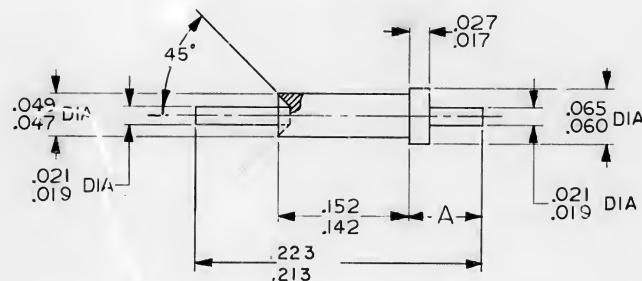
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATL: PLASTIC SHEET PER MIL-P-18177 TYPE GEE
3. REMOVE BURRS AND SHARP EDGES .005/.015
4. IDENTIFY WITH PART NO. PER ND 1002019
5. BREAK THRU PERMISSIBLE BETWEEN .252/.258 DIA C'BORE HOLES

REVISIONS 20043						
SYM	LINE	DESCRIPTION	DN	CHK	DATE	APPROVE
A		REVISED PER TDRR 209	HRB	FC	8-2-78	WR
B		REVISED PER TDRR 22267	AL	FC	8-2-78	WR

[illegible]

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REVISIONS 20043			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 21340	7/1/65	WLR



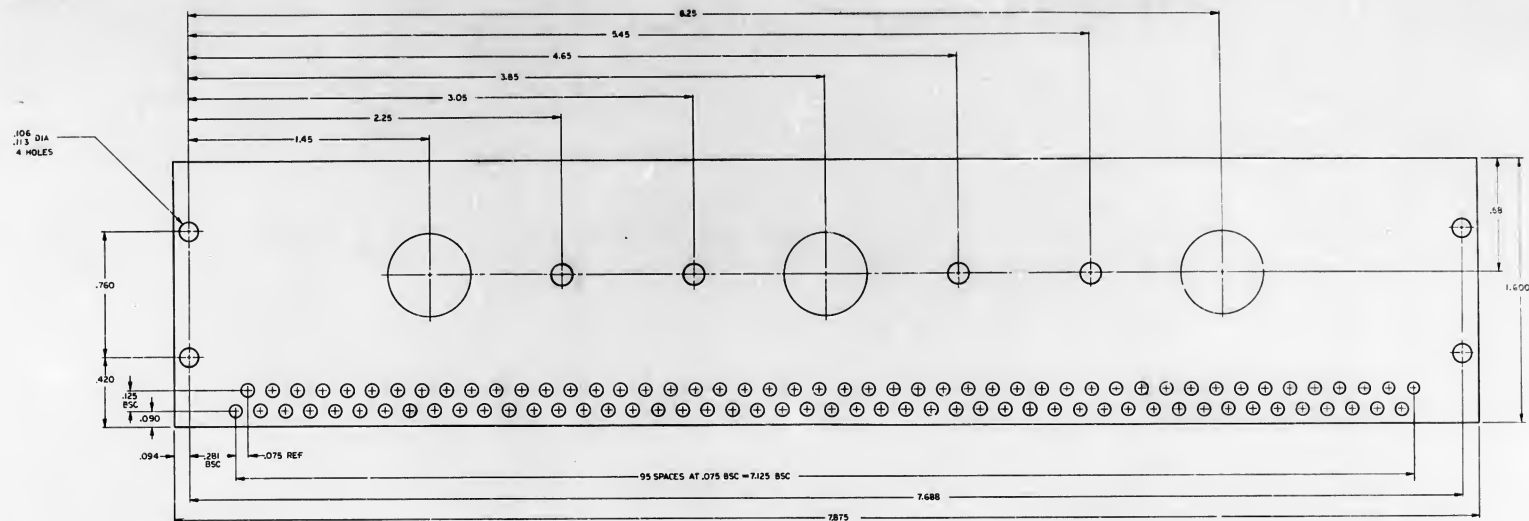
PART NO.	DIM A ±.005
2004069-001	.060
2004069-002	.093

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: NICKEL PER MIL-N-46026 TEMP AS DRAWN
3. FINISH: GOLD PLATE PER MIL-G-45204, TYPE I CLASS I
4. REMOVE BURRS AND SHARP EDGES .005 MAX
5. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .005 MAX
6. ALL SURFACES 63
7. IDENTIFY WITH DRAWING NO. AND REVISION PER ND 1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN <i>Richard Jones</i> DATE 10 MAR 65 CHECKED <i>LP</i> DATE 22 APR 65 APPROVAL <i>70</i> DATE 27 MAY 65 APPROVAL <i>Edwin C. Hall</i> 2 JUN 65		TERMINAL, TURRET FIXED MEMORY MODULE	
NASA APPROVAL <i>W. H. Hall</i> 4/1/66	CODE IDENT NO. 80230	SIZE C	NASA DRAWING NO. 2004069
MIT APPROVAL <i>W. H. Hall</i> 8/1/65	SCALE 10/1	WT	SHEET 1 OF 1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON		
FRACTIONS ± —	DECIMALS ± —	ANGLES ± 5°
DO NOT SCALE THIS DRAWING MATERIAL		
2003049	SEE NOTE 2	
2003040	HEAT TREATMENT	
NEXT ASSY	USED ON	FINAL FINISH
APPLICATION		SEE NOTE 3



.106 DIA
.113 DIA
4 HOLES

.760

420

1

.094

—281—

075 REF

—95 SPACES AT .075 BSC = 7.125 BSC

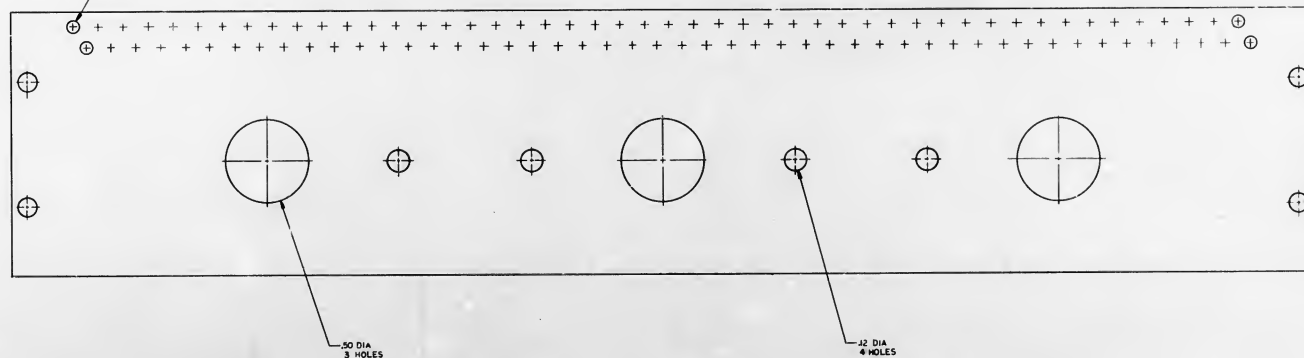
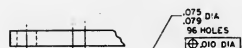
— 7.65

.58

1

THIS VIEW SHOWN WITHOUT FIND NO.2

216

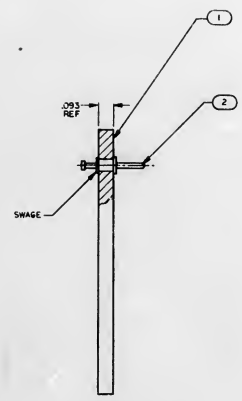


.12 DIA
4 HOLES

- NOTES.
- 1 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 - 2 MATERIAL: PLASTIC SHEET .093 THICK LAMINATED PER MIL-P-18177 TYPE GEE
 - 3 REMOVE ALL BURRS AND BREAK SHARP EDGES .005/.015
 4. IDENTIFY WITH PART NO. PER ND1002019




 .075 DIA
 .079 DIA
 96 HOLES
 .010 DIA

[illegible]

4

3

2

1

NOTE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A GOVERNMENT CONTRACT, THE USER SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMISSIONS FROM THE GOVERNMENT. THE GOVERNMENT MAKES NO WARRANTY, REPRESENTATION, OR GUARANTEE, AND THE FACT THAT THE GOVERNMENT HAS REVIEWED OR IN ANY WAY SUPPORTED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE TAKEN AS AN ENDORSEMENT OR AS A GUARANTEE OF THE QUALITY, RELIABILITY, OR PERFORMANCE OF THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA. THE USER SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMISSIONS FROM THE GOVERNMENT. THE GOVERNMENT MAKES NO WARRANTY, REPRESENTATION, OR GUARANTEE, AND THE FACT THAT THE GOVERNMENT HAS REVIEWED OR IN ANY WAY SUPPORTED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE TAKEN AS AN ENDORSEMENT OR AS A GUARANTEE OF THE QUALITY, RELIABILITY, OR PERFORMANCE OF THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA.

2004746

REVISIONS

TOTAL 37319

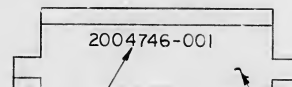
SYM

DESCRIPTION

DATE

APPROVAL

PART NO.	DIGITAL INDICATOR NO.
2004746-001	1006315-001



SEE NOTE 2
(CENTRALLY LOCATE)

CONNECTOR END REF

GENERAL REQUIREMENTS:

UPON COMPLETION OF ALL THE REQUIREMENTS AS SPECIFIED IN PARA 421 OF PS 2016043 ONLY THE DIGITAL INDICATORS WHICH PASS THE REQUIREMENTS OF PARA 421 OF PS 2016043 SHALL BE MARKED AS SPECIFIED IN THIS DOCUMENT

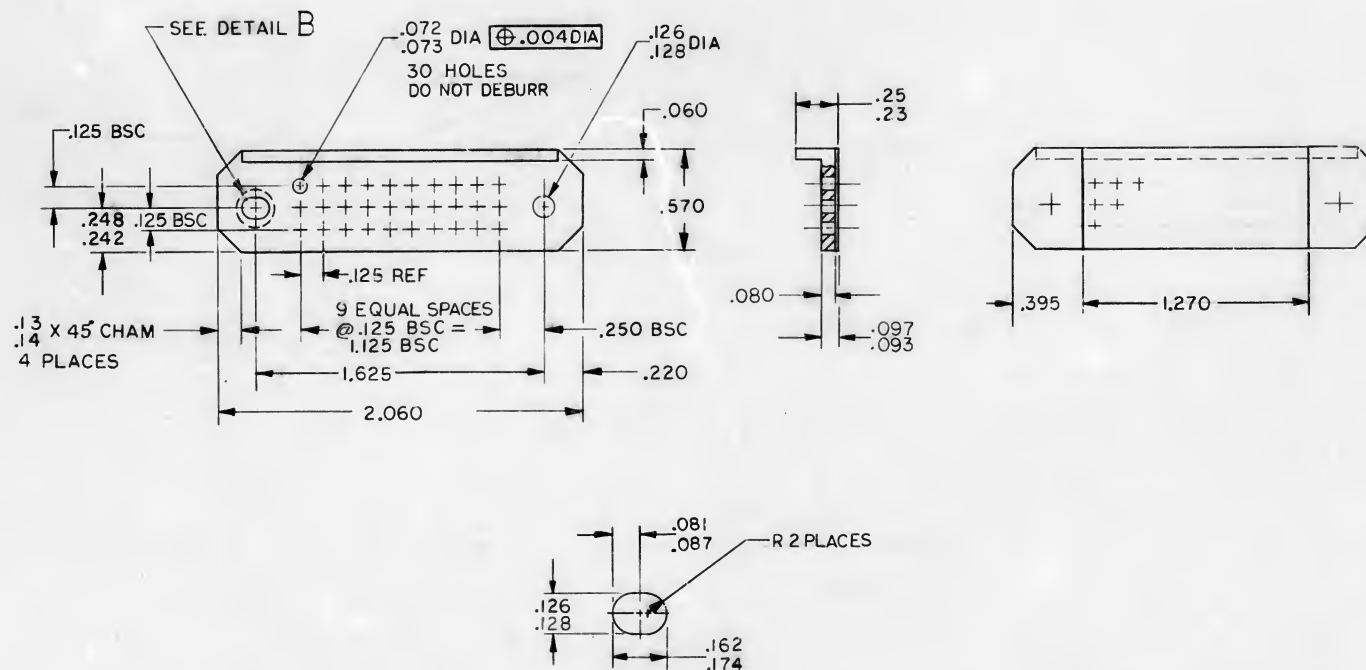
NOTES

1. INTERPERT DRAWING IN ACCORDANCE WITH STANDARDS PERSCRIBED BY MIL-D-70327
2. IDENTIFY WITH PART NO. PER ND 1002019 AND SERIALIZE PER ND1002023

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± ± ±		MIT INSTRUMENTATION LAB CAMBRIDGE, MASS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
		DO NOT SCALE THIS DRAWING MATERIAL		DRAWN <i>Edo C Hall</i> DATE 1-22-69 CHECKED <i>Edo C Hall</i> 1-27-69 APPROVAL <i>Edo C Hall</i> 2/2/69 APPROVAL <i>W. Stammers</i> 28 Jan 69		INDICATOR, DIGITAL (THERMAL-VAC)	
2003988		HEAT TREATMENT		NASA APPROVAL <i>Edo C Hall</i>		CODE IDENT NO.	SIZE
NEXT ASSY		USED ON		MIT APPROVAL <i>McMurry</i> 20 Jan 69		80230	C
APPLICATION		FINAL FINISH				SCALE NONE	WT
						NASA DRAWING NO. 2004746	
						SHEET 1 OF 1	

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REVISIONS				
SYM	ZONE	DESCRIPTION	DR	CHK
A		REVISED PER TDRR 21398	KWS	4/1/65



NOTES

- MATL: 6061-T6 AL PER QQ-A-250/11, TEMPER T6
- REMOVE BURRS AND SHARP EDGES .01/.02 EXCEPT AS NOTED
- CHROMATE PER MIL-C-5541, TYPE II, GRADE C, CLASS 3
- ALL SURFACES
- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
- IDENTIFY WITH DRAWING NO. AND REVISION PER ND1002019

DETAIL B
SCALE 4/1

2003914	USED ON
NEXT ASSY	APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μ F
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
 $\pm .005 \pm 2^\circ$
DO NOT SCALE THIS DRAWING

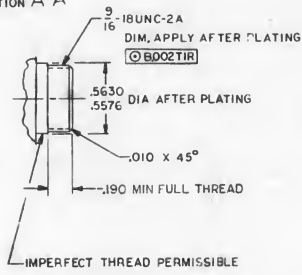
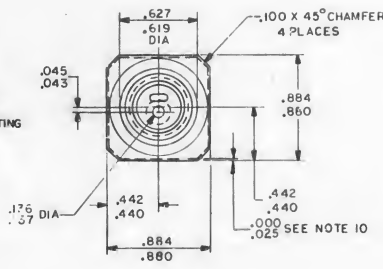
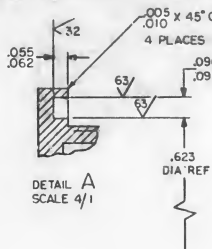
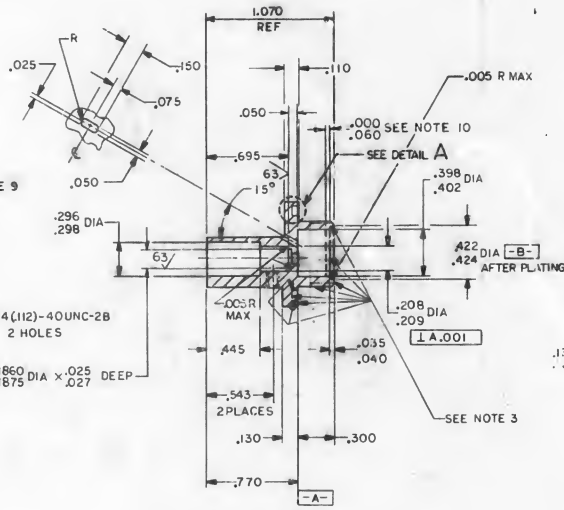
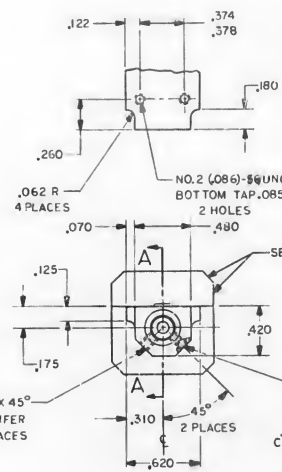
MATERIAL
SEE NOTE 1

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.
<div> <div> MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. </div> <div> MANNED SPACECRAFT CENTER HOUSTON, TEXAS </div> </div>				
<div> <div> DRAWN <i>[Signature]</i> CHECKED <i>[Signature]</i> APPROVED <i>[Signature]</i> APPROVED <i>[Signature]</i> </div> <div> PLATE, CONNECTOR INDICATOR ALARM AGC DSKY </div> </div>				
APPROVED <i>[Signature]</i> MIT		DATE 7-15-65	CODE IDENT NO 80230 SIZE C	DRAWING NO. 2004921
APPROVED <i>[Signature]</i> MSC		DATE 7-13-65	SCALE 2/1	SHEET 1 OF 1

THIS DRAWING IS THE PROPERTY OF THE UNITED STATES GOVERNMENT. IT IS TO BE REPRODUCED AND TRANSMITTED IN ANY FORM AND BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE UNITED STATES GOVERNMENT. THE UNITED STATES GOVERNMENT IS AUTHORIZED TO REPRODUCE AND TRANSMIT THIS DRAWING IN ANY FORM AND BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE UNITED STATES GOVERNMENT. THE UNITED STATES GOVERNMENT IS AUTHORIZED TO REPRODUCE AND TRANSMIT THIS DRAWING IN ANY FORM AND BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE UNITED STATES GOVERNMENT.

2004949 D

REVISIONS				
BY	DATE	DESCRIPTION	CHK	APP
A	11/1/80	REVISED PER TDRR 21818	11/1/80	11/1/80
B	11/1/80	REVISED PER TDRR 25148	11/1/80	11/1/80
C	11/1/80	REVISED PER TDRR 26856	11/1/80	11/1/80
D	11/1/80	REVISED PER TDRR 31830	11/1/80	11/1/80



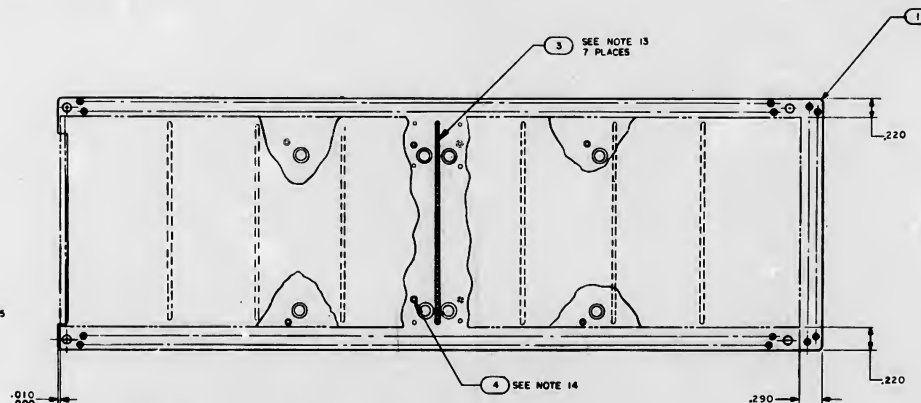
NOTES

- MATL: 6061-T6 AL PER QQ-A-250/11, TEMP T6
- ANODIZE EXCEPT IN AREA INDICATED PER MIL-A-8625, TYPE II, DYED BLACK (THICKNESS OF ANODIC COATING .0003-.0004)
- TIN PLATE AREA SHOWN PER MIL-T-10727, TYPE I, SOLDERABLE, PRESERVATIVE COATING REQUIRED (THICKNESS OF TIN PLATING .0001-.0003)
- ALL INSIDE RADII TO BE .010 R MAX
- REMOVE BURRS AND SHARP EDGES .005 MAX UNLESS OTHERWISE SPECIFIED
- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
- IDENTIFY WITH PART NO. PER ND1002019
- ALL SURFACES UNLESS OTHERWISE SPECIFIED
- SURFACES ALL AROUND TO BE FREE OF TIN PLATING
- ALLOWABLE FLASH AT INTERFACE OF BLACK ANODIZE & TIN PLATE

QTY REQ	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	HOMECLATURE OR DESCRIPTION	FIG NO.
LIST OF MATERIALS				
MIT INSTRUMENTATION LAB		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN: [Signature]		HOUSING, SWITCH MOUNTING		
CHECKED: [Signature]		SWITCH, PUSH BUTTON		
APPROVED: [Signature]		AGC DSKY		
APPROVED: [Signature]		CODE IDENT NO	SIZE	DRAWING NO.
APPROVED: [Signature]		80230	D	2004949
DATE		SCALE	SHEET 1 OF 1	

2003933	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN pF RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES ± .005 ± 1° DO NOT SCALE THIS DRAWING
2003924	MATERIAL SEE NOTE 1
NEXT ASSY	USED ON
APPLICATION	

	PART NO.	MODULE CK. NO.
	201C-03	021
		031
		041
		051
		061
		071
		081
		091
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		981
		991
		1001



- REFERENCES:
1. PROCESS REQUIREMENTS FOR CONTROL AND INSPECTION OF ROPE MEMORY ASSEMBLIES NO 1002285
 2. FIXED MEMORY FIXTURE DWG NO AP 22500

AR	1006085-8	INSULATION TAPE, ELECTRICAL	5
AR	12304896	SPACER	4
AR	102367-001	TAPE LACING & TYING	3
AR	101085-2	WIRE ELECTRICAL	3
AR	1000380-021	CONEHOLDRER ASSY	2
QTY	UNIT	DESCRIPTION	PRICE
1	PER SET	INSULATION OR DESCRIPTION	PER SET
LIST OF INTERVALS			
M11		MANAGED SPACECRAFT CENTER	
INSTALLATION/LEARN LAB		HONOLULU, HAWAII	
C		PROJECT TEAM	
SENSE WIRING ASSY			
SIDE B			
FLEXIBLE MEMORY MODULE			
APPROVED	CODE	REVISED	DATE
MIT	80230	E	20100803
APPROVED	DATE	BY	REMARKS
	8021271		Sheet

8 7 6 5 4 3 2

REVISIONS: 20080305

REV	DATE	DESCRIPTION	BY	CHK	DATE	APPROVED
A		REVISED PER TORR 20080305				
B		REVISED PER TORR 20080305				
C		REVISED PER TORR 20080305				
D		REVISED PER TORR 20080305				
E		REVISED PER TORR 20080305				
F		REVISED PER TORR 20080305				
G		REVISED PER TORR 20080305				
H		REVISED PER TORR 20080305				
I		REVISED PER TORR 20080305				
J		REVISED PER TORR 20080305				
K		REVISED PER TORR 20080305				
L		REVISED PER TORR 20080305				
M		REVISED PER TORR 20080305				

VIEW A-A

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON FRACTIONS DECIMALS ANGLES
DO NOT SCALE THIS DRAWING

KEY: NEXT APP. USED ON APPLICATION

LIST OF MATERIALS

QTY	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	UNIT
1	80230	SENSE WIRING ASSY SIDE B	PCB
1	80230	FIXED MEMORY MODULE	PCB

DATE: 20080305

SCALE: 4/1

SHEET 2 OF 2

8 7 6 5 4 3 2

REVISIONS: 20080305

REV	DATE	DESCRIPTION	BY	CHK	DATE	APPROVED
A		REVISED PER TORR 20080305				
B		REVISED PER TORR 20080305				
C		REVISED PER TORR 20080305				
D		REVISED PER TORR 20080305				
E		REVISED PER TORR 20080305				
F		REVISED PER TORR 20080305				
G		REVISED PER TORR 20080305				
H		REVISED PER TORR 20080305				
I		REVISED PER TORR 20080305				
J		REVISED PER TORR 20080305				
K		REVISED PER TORR 20080305				
L		REVISED PER TORR 20080305				
M		REVISED PER TORR 20080305				

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON FRACTIONS DECIMALS ANGLES
DO NOT SCALE THIS DRAWING

KEY: NEXT APP. USED ON APPLICATION

LIST OF MATERIALS

QTY	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	UNIT
1	80230	SENSE WIRING ASSY SIDE B	PCB
1	80230	FIXED MEMORY MODULE	PCB

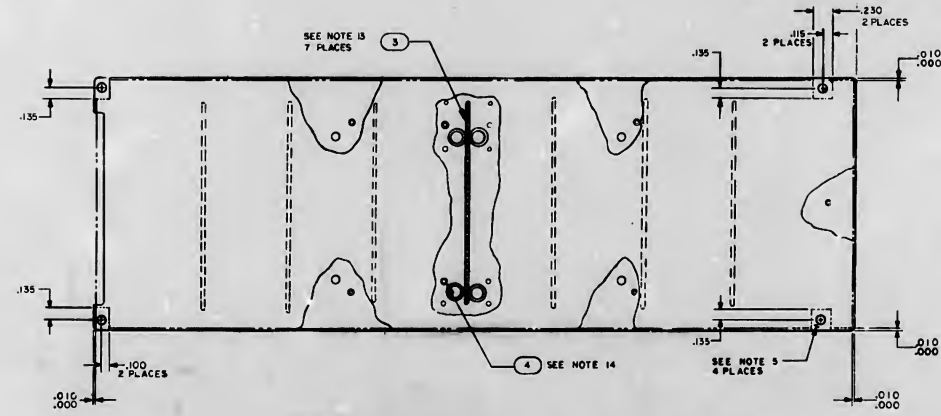
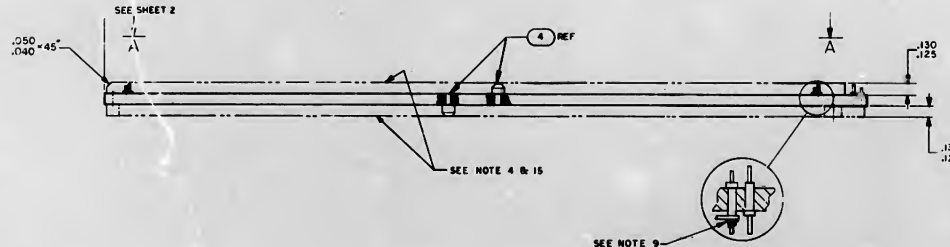
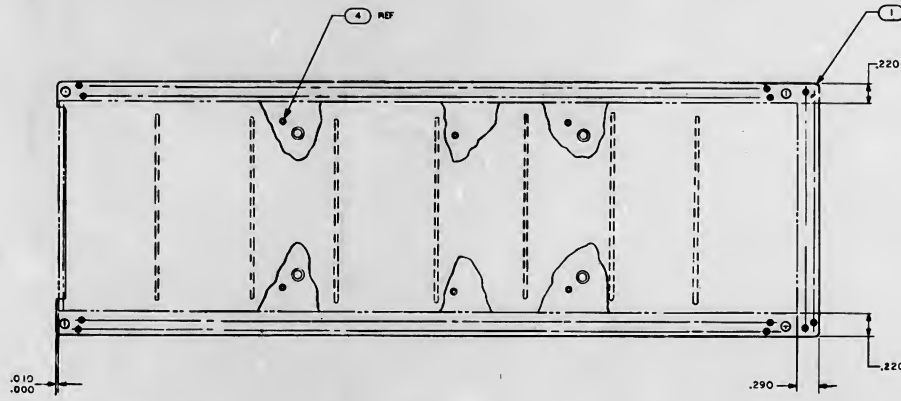
DATE: 20080305

SCALE: 4/1

SHEET 2 OF 2

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. SOLDER PER NO1002071, USING SOLDER COMP SNGD WIRE FORM SOLID PER NO1002075
 3. SENSEWIRE USING FIND NO. 2 PER MODULE DECK NO. AS SHOWN IN CHART
 4. ENCAPSULATE PER NO1002002 REMOVE FLASHING
 5. INDICATED AREAS TO BE FREE OF ENCAPSULATING COMPOUND
 6. IDENTIFY WITH PART NO. PER NO1002019
 7. A/R DENOTES AS REQUIRED
 8. SEE SHEET 2 FOR TERMINAL IDENTIFICATION
 9. DO NOT TIN LEADS OF FIND NO. 2. SOLDER WRAPS TO BE 2 TO 4 TURNS OF UNINSULATED WIRE AND 3/4 TO 1 1/2 TURNS OF INSULATED WIRE AROUND TERMINAL AS SHOWN. PROVIDE SERVICE LOOP
 10. AS LITTLE SLACK AS POSSIBLE SHALL BE MAINTAINED WITHOUT THE SENSE WIRES CROSSING ANY CORE OPENING
 11. THE MAXIMUM NUMBER OF SENSE WIRES PER SIDE INCLUDING INCORRECT WIRES WHICH HAVE BEEN REPLACED SHALL BE 210
 12. INSULATION ON THE SENSE WIRE RUNS SHALL BE INTACT EXCEPT AT SOLDER JOINTS. THE CUT ENDS OF INCORRECT WIRES SHALL BE COATED WITH CLEAR INSULATING COMPOUND PER SC01006303
 13. WRAP B THE AROUND WIRE ASSY APPROXIMATELY AS SHOWN WITH ONE WRAP OF FIND NO. 3
 14. STAKE FIND NO. 4 TO FIND NO. 1 PER NO1002004 TYPE 2

PART NO.	MODULE DECK NO.
0318	0318
0321	0321
0323	0323
0324	0324
0325	0325
0326	0326
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0330	0330
0331	0331
0332	0332
0333	0333
0334	0334
0335	0335
0336	0336
0337	0337
0338	0338
0339	0339
0340	0340
0341	0341
0342	0342
0343	0343
0344	0344
0345	0345
0346	0346
0347	0347
0348	0348
0349	0349
0350	0350
0351	0351
0352	0352
0353	0353
0354	0354
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0356	0356
0357	0357
0358	0358
0359	0359
0360	0360
0361	0361
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0370	0370
0371	0371
0372	0372



NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. SOLDER PER NO1002071, USING SOLDER COMP SNGD WIRE FORM SOLID PER NO1002075
3. SENSEWIRE USING FIND NO. 2 PER MODULE DECK NO. AS SHOWN IN CHART
4. ENCAPSULATE PER NO1002002 REMOVE FLASHING
5. INDICATED AREAS TO BE FREE OF ENCAPSULATING COMPOUND
6. IDENTIFY WITH PART NO. PER NO1002019
7. A/R DENOTES AS REQUIRED
8. SEE SHEET 2 FOR TERMINAL IDENTIFICATION
9. DO NOT TIN LEADS OF FIND NO. 2. SOLDER WRAPS TO BE 2 TO 4 TURNS OF UNINSULATED WIRE AND 3/4 TO 1 1/2 TURNS OF INSULATED WIRE AROUND TERMINAL AS SHOWN. PROVIDE SERVICE LOOP
10. AS LITTLE SLACK AS POSSIBLE SHALL BE MAINTAINED WITHOUT THE SENSE WIRES CROSSING ANY CORE OPENING
11. THE MAXIMUM NUMBER OF SENSE WIRES PER SIDE INCLUDING INCORRECT WIRES WHICH HAVE BEEN REPLACED SHALL BE 210
12. INSULATION ON THE SENSE WIRE RUNS SHALL BE INTACT EXCEPT AT SOLDER JOINTS. THE CUT ENDS OF INCORRECT WIRES SHALL BE COATED WITH CLEAR INSULATING COMPOUND PER SC01006303
13. WRAP B THE AROUND WIRE ASSY APPROXIMATELY AS SHOWN WITH ONE WRAP OF FIND NO. 3
14. STAKE FIND NO. 4 TO FIND NO. 1 PER NO1002004 TYPE 2

REFERENCES

1. PROCESS REQUIREMENTS FOR CONTROL AND INSPECTION OF NOPE MEMORY ASSEMBLIES NO1002002
2. FIXED MEMORY FIXTURE DWG AP 22500

15. VISIBLE COMPONENTS, FIND NO. 2, 3, & 4, SHALL NOT EXCEED ENCAPSULATED SURFACE
16. DUMMY SENSE WIRE LINES, IF REQUIRED, RUNNING ADJACENT AND ON THE SAME SIDE OF FIND NO. 1 SHALL BE ROUTED IN OPPOSITE DIRECTIONS

REV	DATE	DESCRIPTION	BY	CHK	DATE	APPROVED
A		REVISED PER TDR 37915				
B		REVISED PER TDR 37915				
C		REVISED PER TDR 37915				
D		REVISED PER TDR 38022				
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L		REVISED PER TDR 38022				

REV	DATE	DESCRIPTION	BY	CHK	DATE	APPROVED
2003972						
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2003972						

REV	DATE	DESCRIPTION	BY	CHK	DATE	APPROVED
13	2004896	SPACER				
AR	1012607-001	TAPE LACING B. TYING				
AR	100273-2	WIRE ELECTRICAL				
1	2003049-021	CORE HOLDER ASSY				
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SENSE WIRING ASSY
 SIDE A
 FIXED MEMORY MODULE

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VIEW A-A

A	REVISED PER TDR 3-1-65	4/14/65	1/18
B	REVISED PER TDR 3-1-65	4/14/65	1/18
C	REVISED PER TDR 3-1-65	4/14/65	1/18
D	REVISED PER TDR 3-1-65	4/14/65	1/18
E	REVISED PER TDR 3-1-65	4/14/65	1/18
F	REVISED PER TDR 3-1-65	4/14/65	1/18
G	REVISED PER TDR 3-1-65	4/14/65	1/18
H	REVISED PER TDR 3-1-65	4/14/65	1/18
I	REVISED PER TDR 3-1-65	4/14/65	1/18
J	REVISED PER TDR 3-1-65	4/14/65	1/18
K	REVISED PER TDR 3-1-65	4/14/65	1/18
L	REVISED PER TDR 3-1-65	4/14/65	1/18

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES A B C DO NOT SCALE THIS DRAWING CUTTING		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
INSTRUMENTATION LAB CAMBRIE, MASS		SENSE WIRING ASSY SIDE A FIXED MEMORY MODULE	
APPROVED BY [Signature]	CON. IDENT NO. 80230	DATE 4/7	DRAWING NO. 2101804
APPROVED BY [Signature]	SCALE 4/1	SHEET 2 OF 3	

4

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- 2014023

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
0	RELEASED PER CCA 25136	9/3/65	G. Harbo
-	CLASS A RELEASED PER TDRR 24912		

NOTES

1. THIS KIT IS USED FOR INSTALLING BLOCK II APOLLO DISPLAY AND KEYBOARD UNITS TO GSE UNIVERSAL HANDLING FIXTURE 2014013-011 PER INSTALLATION DWG NO. 2014027
2. IDENTIFY PER ND1002019

2014027	INSTALLATION DWG AGC DSKY	REF
8	MS15795-808	WASHER, FLAT
8	MS51958-64	SCREW, PAN HD
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
-011		

LIST OF MATERIALS

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
		TOLERANCES ON
		DECIMALS DECIMALS ANGLES
		.XX .XXX ±
		DO NOT SCALE DRAWING
		MATERIAL
2014013		
NEXT ASSY	USED ON	
APPLICATION		

RAYTHEON CO. LEXINGTON, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
CONTRACT NO. NAS 9-497			
DRAWN <i>Joe Roper</i> DATE 29 APR 65			
CHECKED <i>W. Lyons</i> 30 JUL 65			
APPROVAL <i>C. D. Duke</i> 8 AUG 65			
APPROVAL <i>J. L. J.</i> 9 AUG 65			
APPROVAL <i>E. B. Davis</i> 1 SEP 65			
NASA APPROVAL A. C. METZGER			
MIT APPROVAL <i>W. J. Gaffney</i> 7 DEC 65			
MIT APPROVAL <i>C. J. Harbo</i> 12/1/65			
CODE IDENT NO.	SIZE	NASA DRAWING NO.	
49956	C	2014023	
SCALE NONE		WT	SHEET 1 OF 1

4

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2014023

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
0	RELEASED PER CCA 25136	9/3/65	G. Harano
-	CLASS A RELEASED PER TDRR 2441A		

NOTES

1. THIS KIT IS USED FOR INSTALLING BLOCK II APOLLO DISPLAY AND KEYBOARD UNITS TO GSE UNIVERSAL HANDLING FIXTURE
- 2014013-011 PER INSTALLATION DWG NO. 2014027
- IDENTIFY PER NO1002019

2014027	INSTALLATION DWG AGC DSKY REF
B MS15795-806	WASHER, FLAT
B MS51958-64	SCREW, PAN HD
QTY REQ	PART OR IDENTIFYING NO.
-011	
NOMENCLATURE OR DESCRIPTION	
FIND NO.	
LIST OF MATERIALS	
RAYTHEON CO. LEXINGTON, MASS.	
CONTRACT NO. NAS 9-497	
DRAWN <i>W. Lyons</i> DATE 29 JUL 65	
CHECKED <i>W. Lyons</i> 30 JUL 65	
APPROVAL <i>G. Harano</i> 8 AUG 65	
APPROVAL <i>J. White</i> 9 AUG 65	
APPROVAL <i>G. Harano</i> 1 SEP 65	
NASA APPROVAL A. C. METZGER	
MIT APPROVAL <i>W. Lyons</i> 12/65	
MIT APPROVAL <i>G. Harano</i> 12/65	
MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
MOUNTING KIT AGC DSKY (BLK II SERIES)	
CODE IDENT NO.	SIZE
49956	C
NASA DRAWING NO. 2014023	
SCALE NONE	WT
SHEET 1 OF 1	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
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DO NOT SCALE DRAWING		
MATERIAL		
2014013		
NEXT ASSY	USED ON	
APPLICATION		

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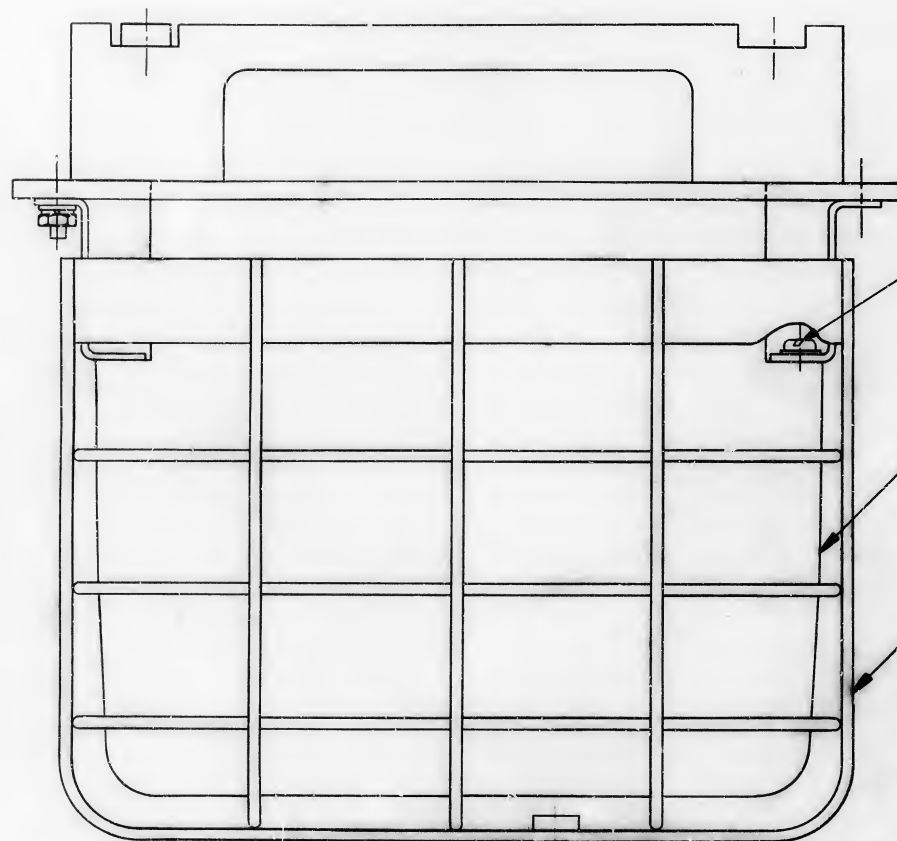
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2014027

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
0	RELEASED PER CCA 25136	7/3/65	G. Harano
-	CLASS A RELEASED PER TORR 24452		



WASHER, FLAT MS15795-808
SCREW, PAN HD MS51958-64

AGC DSKY
BLOCK II SERIES

HANDLING FIXTURE
UNIVERSAL DSKY-2014013-011

WASHER EXT. TOOTH MS35335-61
SCREW, PAN HD MS35235-81

NOTES

1. INSTALL UNIV DSKY USING MTG KIT 2014023-011

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON		
		DECIMALS	DECIMALS	ANGLES
		.XX	.XXX	±
		±	±	
		DO NOT SCALE DRAWING		
		MATERIAL		
NEXT ASSY	USED ON			
APPLICATION				

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
RAYTHEON CO. LEXINGTON, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
CONTRACT NO. NAS 9-497		INSTALLATION DRAWING AGC DSKY(BLK II SERIES)	
DRAWN <i>P. Dwyer</i> DATE <i>7 MAY 65</i>		CODE IDENT NO. SIZE	
CHECKED <i>W. Byrnes</i> 30 JUL 65		49956 C	
APPROVAL <i>P. S. Dwyer</i> 5 AUG 65		NASA DRAWING NO.	
APPROVAL <i>J. G. Baker</i> 9 AUG 65		2014027	
APPROVAL <i>A. C. Metzger</i> 15 SEP 65		SCALE 1/1 WT	
NASA APPROVAL A. C. METZGER		SHEET 1 OF 1	
MIT APPROVAL <i>W. J. G. Baker</i>			
MIT APPROVAL <i>G. Harano</i> 12/65			

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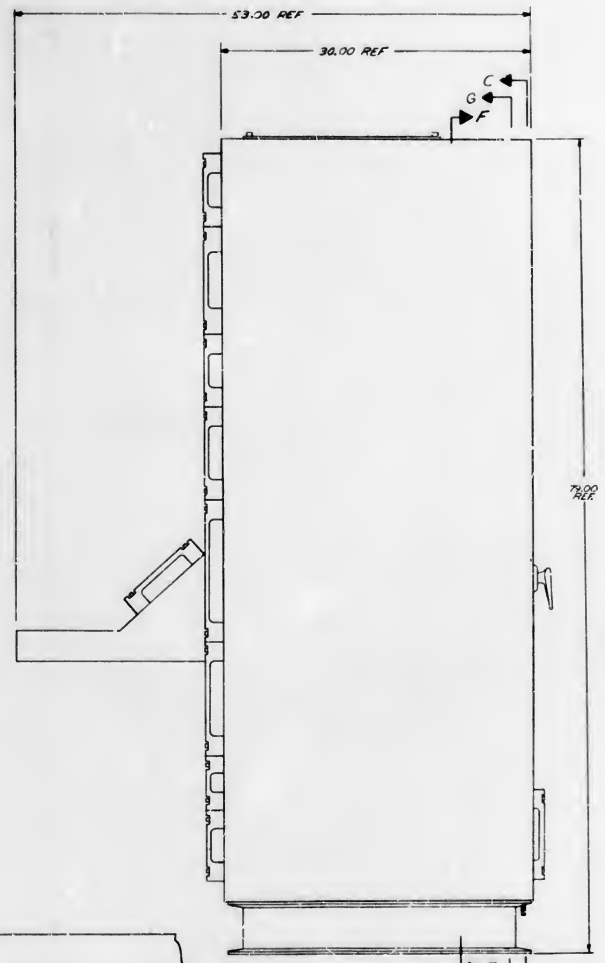
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2014037-051	LOGIC DRAWER ASSY NO.2	134
2014046-041	A INTERCONNECTION ASSY	133
2014050-051	LOGIC DRAWER ASSY NO.1	133
1004260-267	NAMEPLATE	131
2014041-061	PROGRAMMER MONITOR ASSY	130
2014037-081	LOGIC DRAWER NO.2 ASSY	129
2014046-041	SELF TEST ASSY	128
1004260-268	NAMEPLATE	127
2014041-081	PROGRAMMER MONITOR ASSY	126
1006923-005	CABLE, ELECTRICAL CABLE	125
1014036-091	LOGIC DRAWER ASSY NO.1	124
1008280-280	NAMEPLATE	123
2014055	INTERCONNECTION DIAGRAM	122
2014053	INTERCONNECTION DIAGRAM	121
1006600-273	NAMEPLATE	120
2014091-091	PROGRAMMER MONITOR ASSY	119
2014095-031	REC INTERFACE ASSY	118
2014037-031	SELF TEST ASSY	117
2014046-031	LOGIC DRAWER ASSY NO.1	116
2014090	INTERCONNECTION DIAGRAM	115
2014093	ELEC SCHEM ACDC PWR DISTR REF	114
1004600-270	NAMEPLATE	113
2014096-031	NO INTERCONNECTION ASSY	112
2014096	ELEC SCHEM ACDC PWR DISTR REF	111
2014097	INTERCONNECTION DIAGRAM	110
2014091-031	PROGRAMMER MONITOR ASSY	109
2014050-031	LOGIC DRAWER ASSY NO.1	108
2014098-021	POWER CONTROL ASSY	107
2014046-021	NO INTERCONNECTION ASSY	106
MS35173-2740	CONNECTOR, NUT/PLATE TEL/CL	105
MS35006	WASHER, FLAT	104
1008640-258	NAMEPLATE	103
2014036-021	SELF TEST ASSY	102
2014095-021	REC INTERFACE ASSY	101
2014041-021	PROGRAMMER MONITOR ASSY	100
2014040-021	AV INTERFACE ASSY	99
2014051-021	LOGIC DRAWER NO.2 ASSY	98
2014036-021	LOGIC DRAWER NO.1 ASSY	97
1006938-100	TRAIL LACING	96
NOTE 3-2014038-100	SCREW, PAN HD	95
MS35192-45	SLIDE, BRACKET ASSY	94
2014036-031	SLIDE, BRACKET ASSY	93
2014036-031	SLIDE, BRACKET ASSY	92
2014036-031	SLIDE, BRACKET ASSY	91
MS35192-087	CLAMP, LOOP	90
MS35192-086	CLAMP, LOOP	89
MS35192-085	CLAMP, LOOP	88
1006972-3	CLAMP, LOOP	87
1006972-11	CLAMP, LOOP	86
2014036-091	SLIDE, BRACKET ASSY	85
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2014036-091	SLIDE, BRACKET ASSY	83
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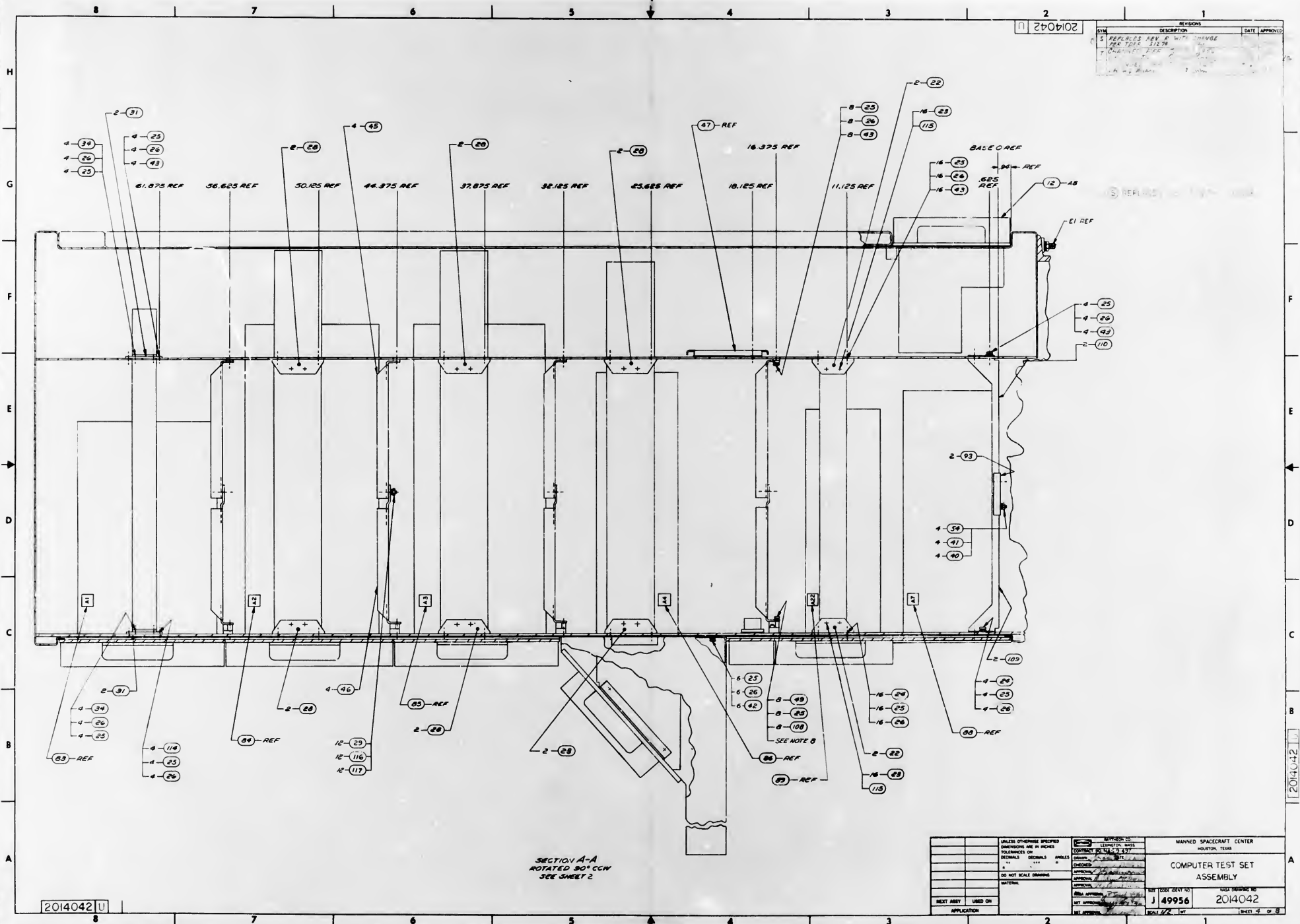
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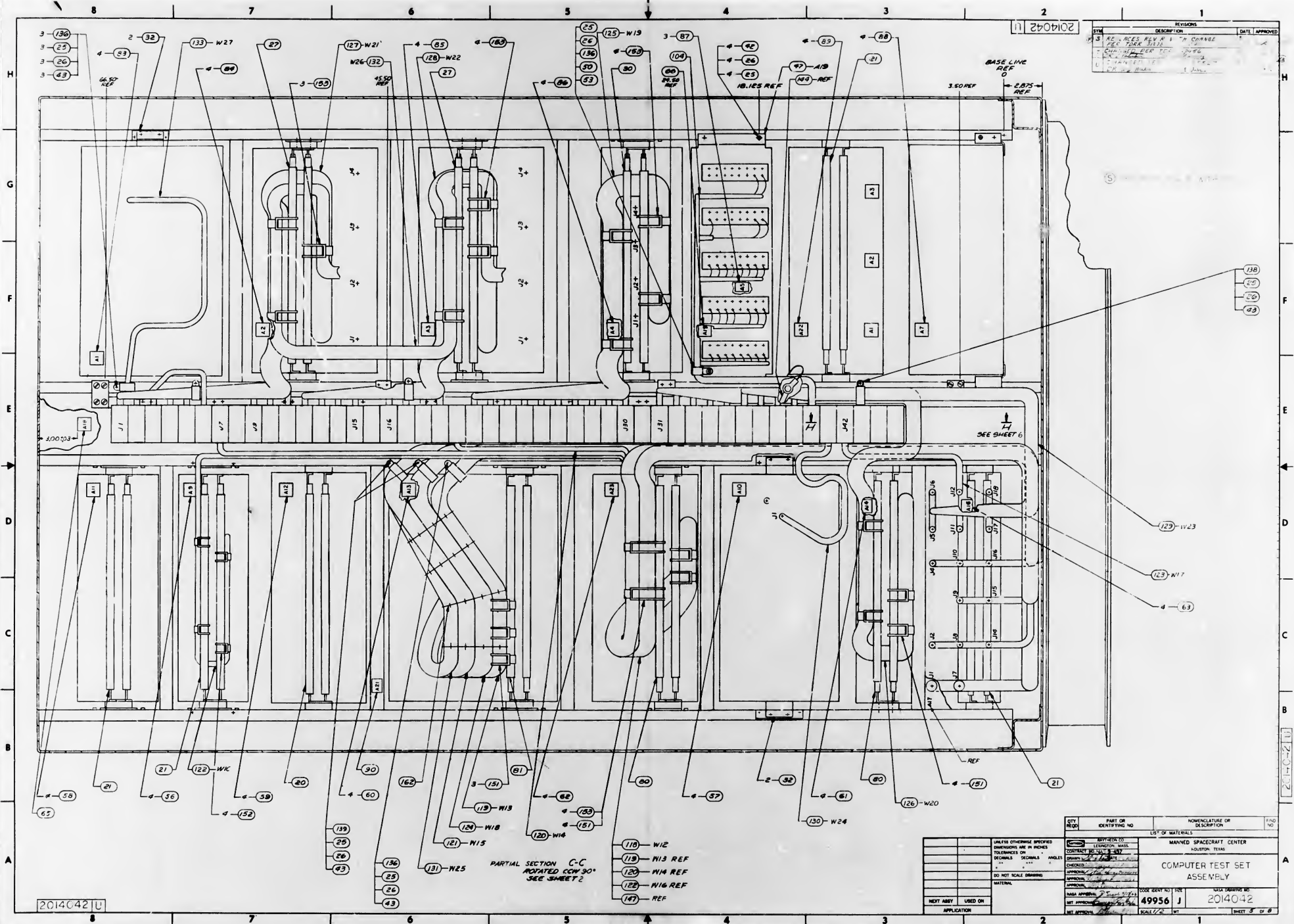
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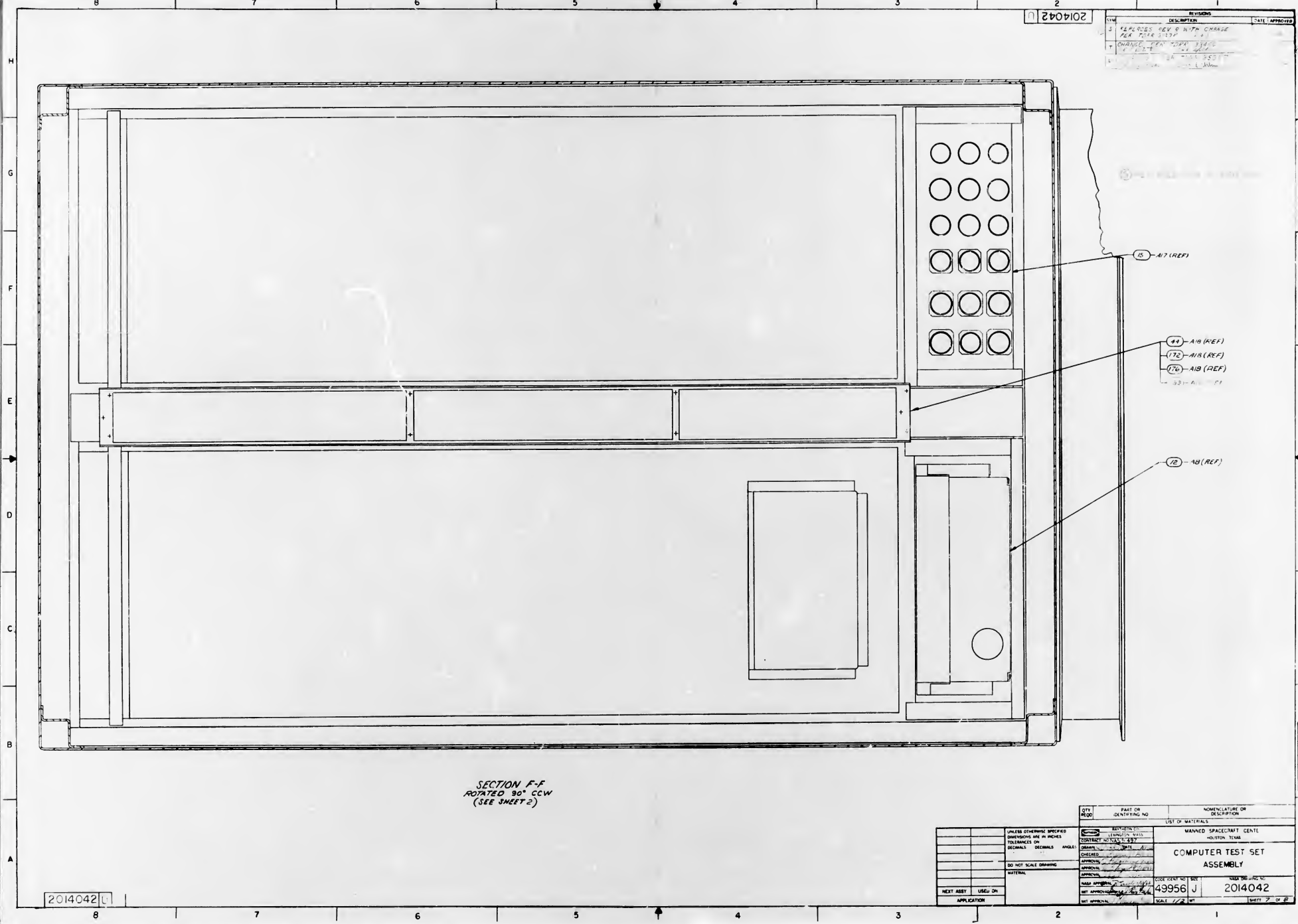


(SEE SHEET 6)

[illegible]







SECTION F-F
ROTATED 90° CCW
(SEE SHEET 2)

2014042

REV	DESCRIPTION	DATE	APPROVED
1	REPLACES REV 0 WITH CHANGE FOR PER 1000		
2	CHANGED PER 1000 TO 1000		
3	CHANGED PER 1000 TO 1000		

15 - A17 (REF)

14 - A18 (REF)

172 - A18 (REF)

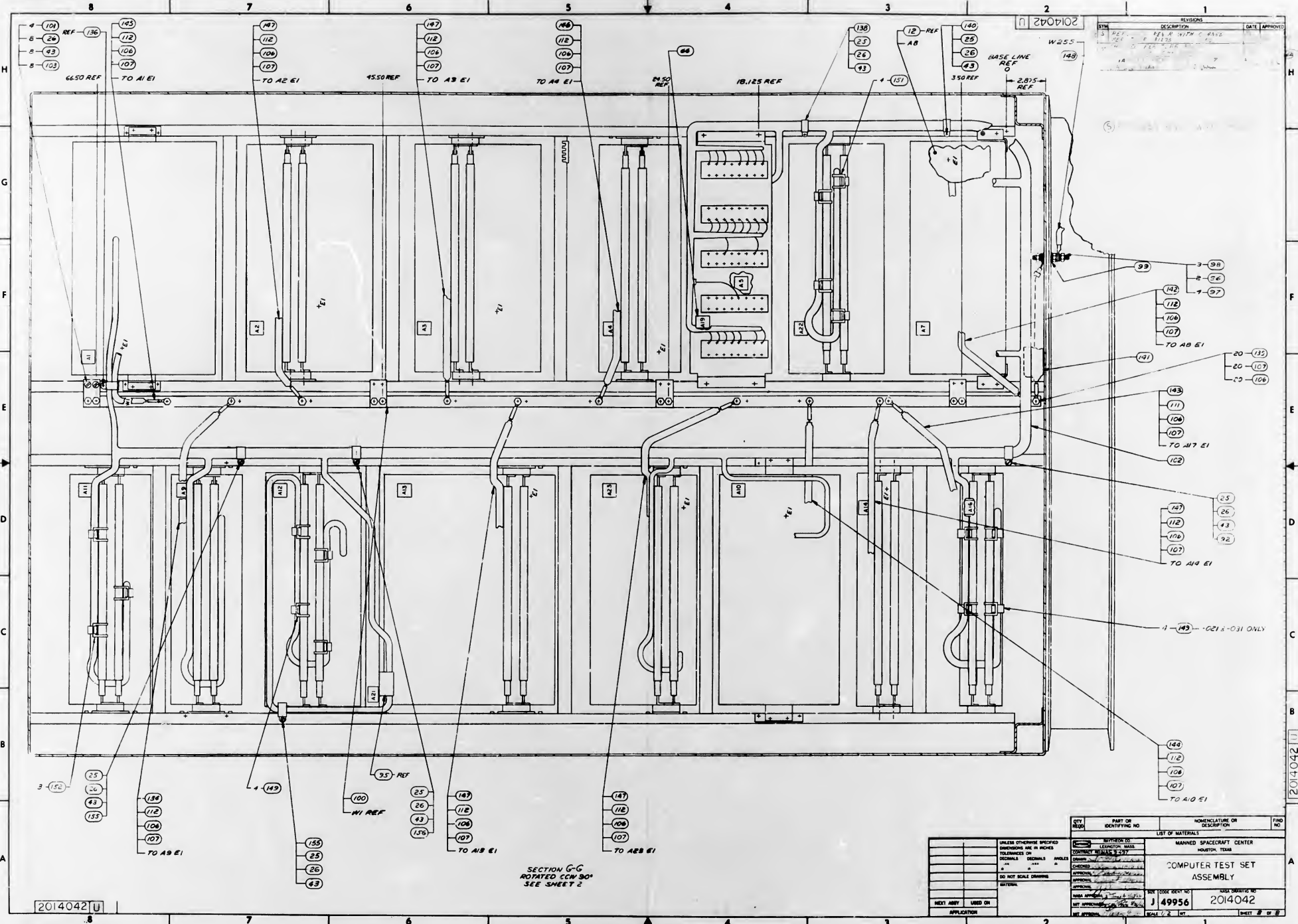
176 - A18 (REF)

33 - A18 (REF)

12 - A18 (REF)

2014042

QTY	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION
REQD		
LIST OF MATERIALS		
MANNED SPACECRAFT CENT		
HOUSTON TEXAS		
COMPUTER TEST SET ASSEMBLY		
49956 J		
2014042		
SCALE 1/2" = 1"		
SHEET 2 OF 2		



REV	DESCRIPTION	DATE	APPROVED
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REV	DESCRIPTION	DATE	APPROVED
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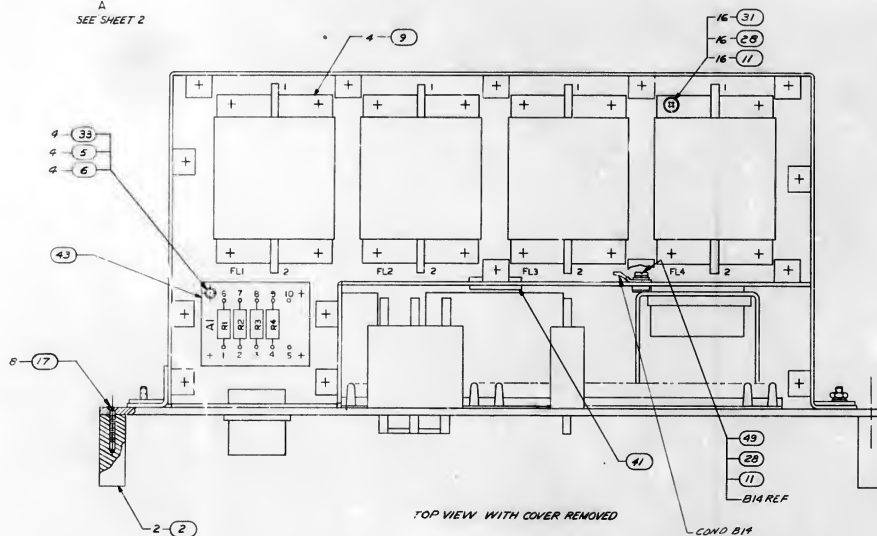
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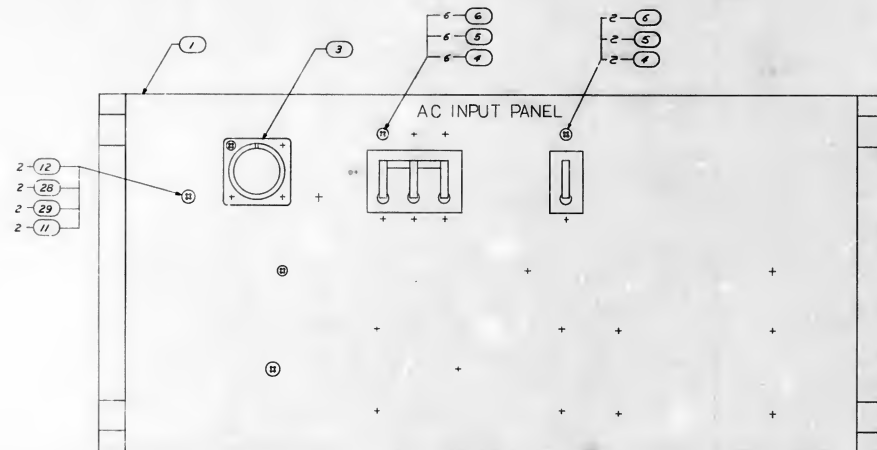
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SEE SHEET 2

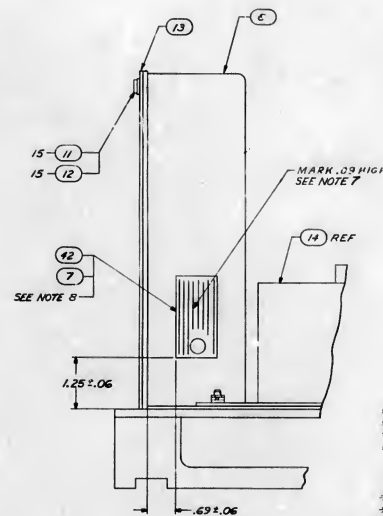


TOP VIEW WITH COVER REMOVED



FRONT VIEW

- NOTES:
- UNLESS OTHERWISE SPECIFIED STRIP ALL LEADS
 - 50 ± .06 & TIN PER ND1002071
 - STRIP .25 DO NOT TIN & ATTACH FIND NO.38 AND 1.00 ± .06 OF FIND NO.51
 - STRIP .25 DO NOT TIN & ATTACH FIND NO.39 AND 1.00 ± .06 OF FIND NO.53
 - SOLDER .5 TIN PER ND 500277
 - FOR FABRICATION, SEE ND1002032, EXCEPT USE FIND NO.48.
 - NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
 - SERIALIZE PER ND1002023.
 - GROUND FIND NO.42 TO FIND NO.8 USING FIND NO.7.
 - MIL-I-23053 CLASS I, BLK ID .250
 - SLEEVE USING .75 LG OF FIND NO.40
 - FL STRIP .19 DO NOT TIN & ATTACH FIND NO.37 AND 1.00 ± .06 OF FIND NO.52
 - STRIP .19 DO NOT TIN & ATTACH FIND NO.36 AND 1.00 ± .06 OF FIND NO.52
 - STRIP .15 DO NOT TIN & ATTACH FIND NO.35 AND 1.00 ± .06 OF FIND NO.53
 - STRIP .15 PER ND1002036
 - AS DENOTES AS REQUIRED
 - STRIP .25 DO NOT TIN & ATTACH FIND NO.50 AND 1.00 ± .06 OF FIND NO.51 (BOTH ENDS)
 - MIL-I-23053, CLASS I, WHT ID .187 FOR FIND NO.51, ID .125 FOR FIND NO.52, ID .250 FOR FIND NO.53
 - MARK SLEEVING WITH REF DESTINATIONS 12 HIGH BLACK PER ND 1002019
 - MARK CONDUCTOR IDENTIFICATION PER ND1002019
 - STRIP .25 DO NOT TIN & ATTACH FIND NO.38 AND 1.75 ± .06 OF FIND NO.51



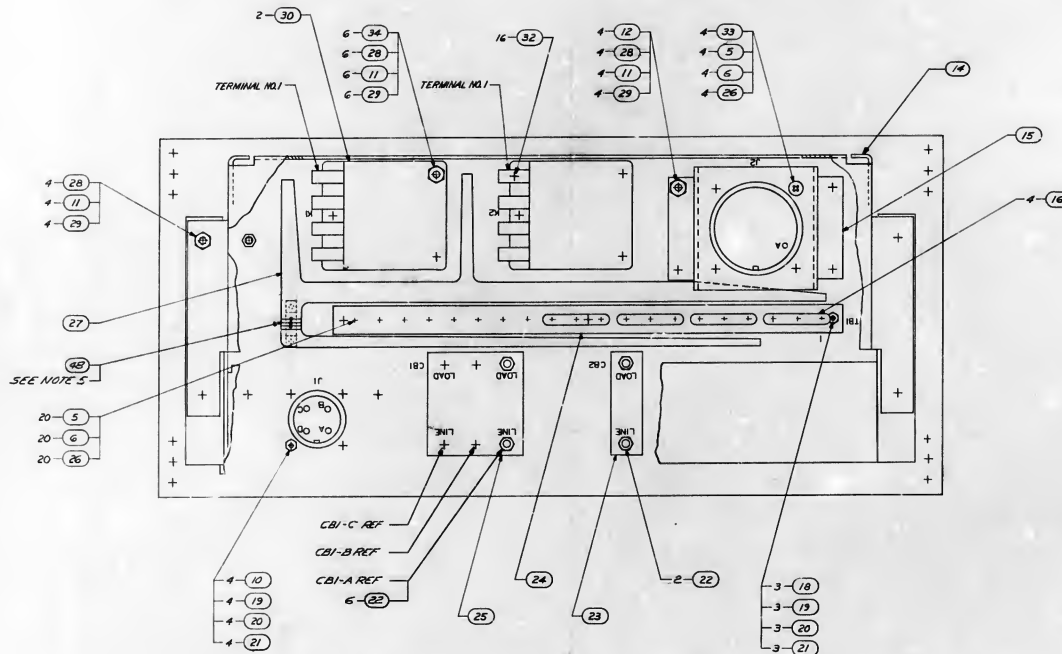
SEE NOTE 8

REV	DESCRIPTION	DATE	APPROVED
1	RELEASED PER CC 200		
2	CHANGED PER CCA 2-5456		
3	CLASS A RELEASED PER TDR 2-5456		
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* DENOTES LENGTH IN FEET

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INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-STD-2007



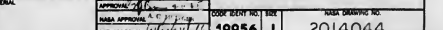
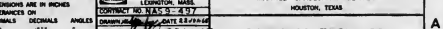
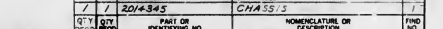
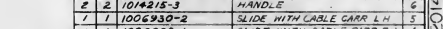
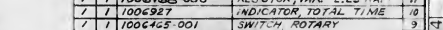
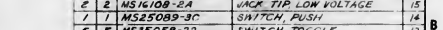
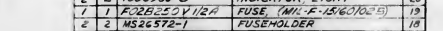
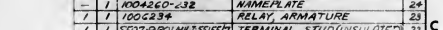
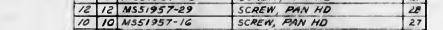
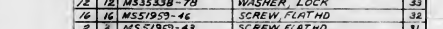
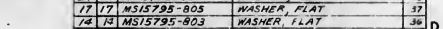
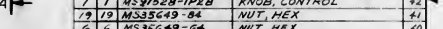
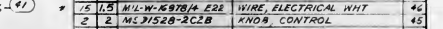
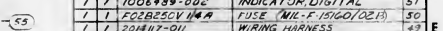
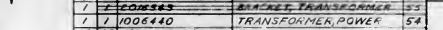
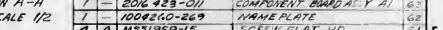
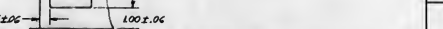
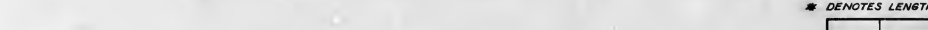
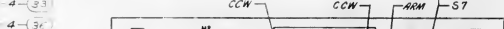
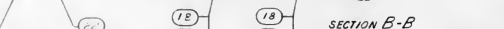
VIEW A-A
SEE SHEET 1

JUMPER CHART									
COND	FROM			DESCRIPTION			TO		
	REMARKS	DESTINATION	COLOR	AWG	LENGTH	YND NO	DESTINATION	REMARKS	
B1		A1-1	WHT	18	.8FT	45	A1-1	SEE NOTE 11	
B2		A1-2	WHT	18	1.2FT	45	A2-1	↑	
B3		A1-3	WHT	18	1.6FT	45	A3-1	↑	
B4		A1-4	WHT	18	2.0FT	45	A4-4	SEE NOTE 11	
B5	STRIP - 25 SEE NOTES 4 & 10	U1-C	WHT	10	.9FT	46	FL1-1	SEE NOTE 2	
B6	STRIP - 25 SEE NOTES 4 & 10	U1-B	WHT	10	1.0 FT	46	FL2-1	↑	
B7	STRIP - 25 SEE NOTES 4 & 10	U1-A	WHT	10	1.3 FT	46	FL3-1	SEE NOTE 2	
B8	STRIP - 25 SEE NOTES 4 & 10	U1-D	WHT	8	1.6 FT	47	FL4-1	SEE NOTE 3	
B9		A1-9	BLK	18	1.7 FT	44	A1-8A	SEE NOTE 12	
B10	SEE NOTE 2	FL1-2	WHT	10	.9FT	46	CBI-C LINE	SEE NOTE 20	
B11	↑	FL2-2	WHT	10	.5 FT	46	CBI-B LINE	↑	
B12	SEE NOTE 2	FL3-2	WHT	10	.1FT	46	CBI-A LINE	SEE NOTE 20	
B13	SEE NOTE 3	FL4-2	WHT	8	1.2FT	47	TBI-3	SEE NOTE 19	
B14	SEE NOTE 16	K1-B	BLK	10	1.0FT	54	EC	SEE NOTE 16	

ROUTE THRU FIND NO. 41

QTY REQD		PART IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION		FIND NO
			LIST OF MATERIALS		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMALS DECIMALS ANGLES 0.03 0.03 0.03 DO NOT SCALE DRAWING MATERIAL:		BAYVIEW CO.  BAYVIEW CO. CORRUGATED ALUMINUM, MADE IN U.S.A. DRAWN BY DATE 7/2/57 CHECKED BY DATE 7/2/57 APPROVED BY DATE 7/2/57 APPROVAL: <i>[Signature]</i> SPECIAL INSTRUCTIONS: <i>[Handwritten notes]</i> REVISIONS: <i>[Handwritten notes]</i> COOK DART NO. 101 TELA DRAWING NO.			
2040402		USED ON		49956 J	
NEXT ASSY		BY		2040403	
APPLICATION		REVISION		SCALE 1/4" = 1"	
		REVISION		SHEET 2 OF 2	

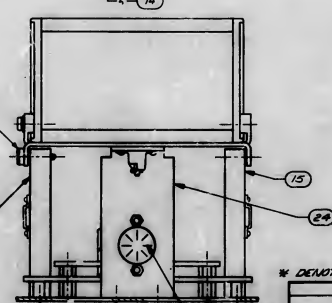
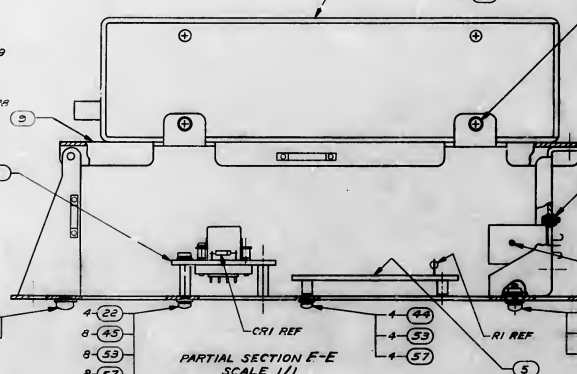
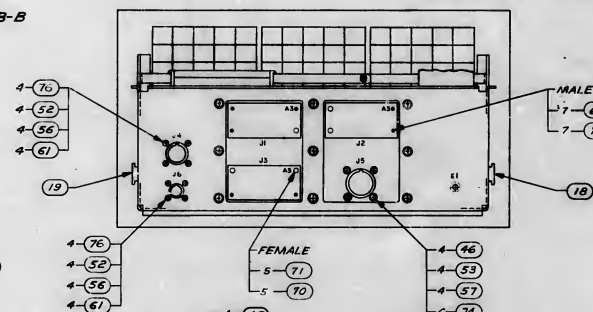
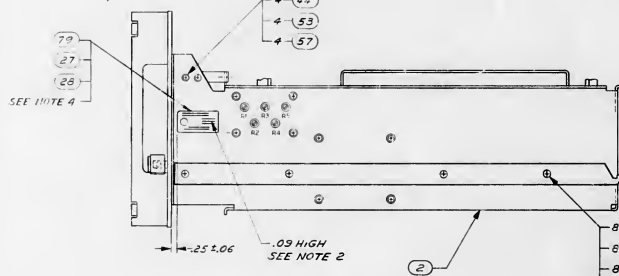
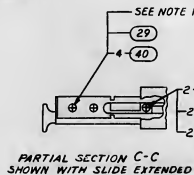
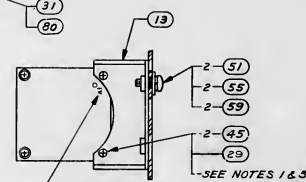
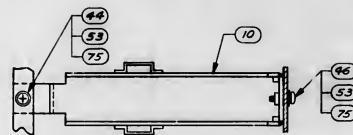
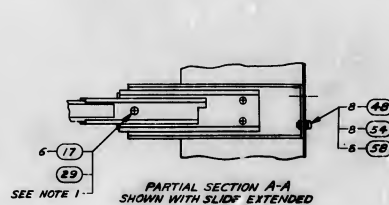
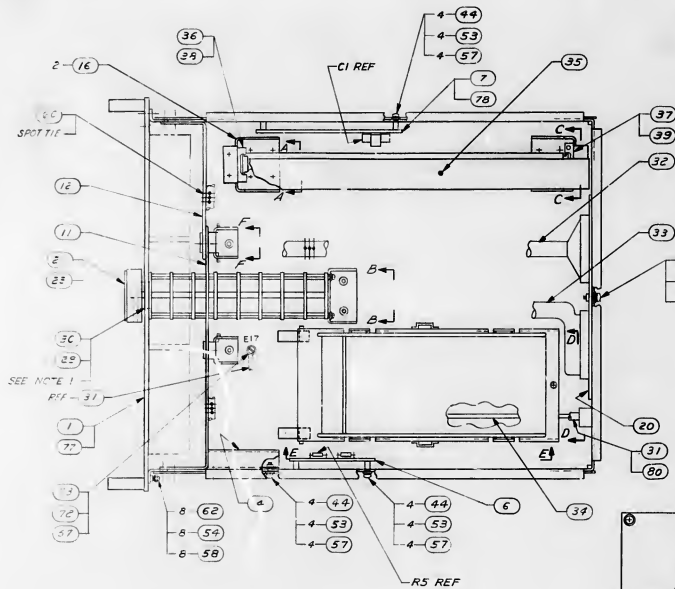
58 60



REF ID:	REF ID:	IDENTIFYING NO.	DESCRIPTION	NO.
-021	-011	LIST OF MATERIALS		
REF ID:	REF ID:	IDENTIFYING NO.	DESCRIPTION	NO.
011	011	RAYTHEON CO.	MANNED SPACECRAFT CENTER	

CHECKED	2 JUL 65	POWER CONT; OL ASSY
APPROVAL	2 JUL 65	COMPUTER TEST SET
APPROVAL	2 JUL 65	

NET APPROVAL <i>[Signature]</i>	39930	2014044
NET APPROVAL <i>[Signature]</i>	SCALE 1	WT SHEET OF



REVISIONS		
S/N	DESCRIPTION	DATE APPROVED
H	CHANGED PER TDR 26714 DR 29346 APPD	1/28/88 JAL
J	CHANGED PER TDR 28112 DR 29346 CHN 29346 APPD	1/16/88 JAL
K	CHANGED PER TDR 29315 DR 29346 CHN 29346 APPD	2/1/88 JAL
L	CHANGED PER TDR 29346 DR 29346 CHN 29346 APPD	1/16/88 JAL

		2016992	LEAD ELECTRICAL				
		2016992	SCHEMATIC				
8	B	MS1959-17	S'WEN, MACH, FLAT HD				
4	4	2016993	WASHER, FLAT				
		MS135649-64	NOI, PLAIN, HEX				
		MS177-27	SCREW, MACHINE, PAN HD				
1	1	MS13333-33	WASHER, GENERAL TOOTH				
5	5	1066671-004	GUIDE, SOCKET				
12	12	1066671-003	NOI, STOP				
7	7	1066671-002	GUIDE, PIN				
		SEE NOTE 12	INSULATION, SLEEVES				
200000	200000	MS135649-64	WASHER, GENERAL TOOTH				
2	2	1066952-8	WASHER, NYLON				
		SEE NOTE 11	WIRE, ELEC				
20	20	1013437-1	WIRE ELEC, TWIN				
		MS10468-822	WASHER, FLAT				
16	16	MS135649-64	NOI, PLAIN, HEX				
10	10	MS135649-44	NOI, PLAIN, HEX				
AR	AR	1066429-004	TAPE, LACING				
2	2	MS15735-808	WASHER, FLAT				
10	10	MS15735-808	WASHER, FLAT				
37	37	MS15735-805	WASHER, FLAT				
10	10	MS15735-803	WASHER, FLAT				
2	2	MS13338-91	WASHER, LOCK				
37	37	MS13338-90	WASHER, LOCK				
10	10	MS13338-79	WASHER, LOCK				
10	10	MS13338-78	WASHER, LOCK				
2	2	MS13338-65	SCREW, MACHINE-PAN HD				
		MS13338-72	SCREW, MACHINE-PAN HD				
2	2	MS19169-47	SCREW, MACHINE-FLNG CSA HD				
13	13	MS19169-57	SCREW, MACHINE-PAN HD				
6	6		-43				
6	6		-91				
14	14		-3				
28	28	MS19169-57	SCREW, MACHINE-PAN HD				
		MS13338-18	SCREW, MACHINE-PAN HD				
2	2	MS19169-15	SCREW, MACHINE-PAN HD				
4	4	MS19169-46	SCREW, MACHINE-FLNG CSA HD				
1	1	1066988-8	SLIDE, CHASSIS				
1	1	1066988-3	SLIDE, CHASSIS				
1	1	1066988-1	SLIDE, CHASSIS				
1	1	201476-011	LOGIC PLATE ASSY NO.1				
1	1	201476-010	HARNESS ASSY D				
1	1	201476-011	HARNESS ASSY C				
1	1	201476-012	HARNESS ASSY B				
1	1	201476-013	HARNESS ASSY A				
2	2	MS13338-22	SCREW, MACHINE-FLNG CSA HD				
AR	AR	MS13338-23, 24, 25	SCREW, MACHINE-FLNG CSA HD				
AR	AR	MILA-103217-20	CEMENT				
1	1	1004660-835	NAME PLATE, IDENT				
1	1	1006446-0	TRANSFORMER				
2	2	MS16638-30	SCREW, SHOULDER				
1	1	1006446-0	TRANSFORMER				
1	1	1006928	NOI, BAR				
4	4	1006480-007	POST, ELECTRICAL				
1	1	1006892-4	SWITCH, ROTARY				
1	1	201476-014	LOGIC PLATE ASSY NO.2				
1	1	1006930-15	SLIDE, CHASSIS, RH				
1	1	1006930-16	SLIDE, CHASSIS, LH				
6	6	MS13338-93	SCREW, MACHINE-FLAT CSA HD				
2	2	1014555-2	BRACKET ASSY				
1	1	201476-015	BRACKET, PHOTO, RH				
1	1	2014335	BRACKET, SWITCH SUPPORT, LH				
1	1	2014373	HARNESS, SUPPORT, LH				
1	1	2014357	HARNESS, SUPPORT, RH				
1	1	2014330	BRACKET, SWITCH SUPPORT, LH				
1	1	2014330	BRACKET, SWITCH SUPPORT, RH				
1	1	2014292-011	COMPONENT BOARD ASSY A				
1	1	2014294-011	COMPONENT BOARD ASSY A				
1	1	2014296-011	COMPONENT BOARD ASSY A				
1	1	2014297-011	COMPONENT BOARD ASSY A				
1	1	2014334-011	POT BRKT ASSY A				
1	1	2014336	AMPLIFIER, M, DIFFICULT				
1	1	2014314	CHASSIS				
1	1	2014327-011	FRONT PANEL ASSEMBLY				
QTY	UNIT	NO.	DESCRIPTION	QTY	UNIT	NO.	DESCRIPTION

1. ASSIGNABLE FIND NO. 27, 25, 30, 10 & 45 USING FIND NO. 29
2. DISCARD REF. ID: 10020023
3. DISCARD REF. ID: 10020024 AND REPLACE WITH
"REPLACE REF. ID: 10020024"
4. ENCL. FIND NO. 37 OF FIND NO. 70 TO FIND NO. 25 USING FIND NO. 29
5. REPLACE REF. ID: 10020071
6. REAFFRUIT REF. ID: 1002002 & KICRPT USE FIND NO. 60
7. INHERENT PREFIXES BALLOONS DENOTE QUANTITY
8. PREFIX CHOICE FOR IDENTIFICATION REF. NO. 10020018
9. PREFIX REFERENCE DESIGNATIONS ARE SHOWN FOR
COMPLETE DESIGNATIONS PREFIX WITH SUBASSY
DESIGNATIONS (6)
10. UNLESS OTHERWISE SPECIFIED STRIP ALL LEADS
SC 212 5 71N REF. NO. 10020001
11. QO-W434 TYPE 5 AUGV 28 WHITE COATED 3
12. ML 37-2053 CLASS 1 CLASS NO. 1025
13. FOR APPLICATION OF FIND 6104 65 61768 SEE
LEAD 6 LITRICAL 2014902
14. FOR APPLICATION OF FIND 6104 65 61768 SEE
LEAD 6 LITRICAL 2014902
15. FOR APPLICATION OF FIND 6104 65 61768 SEE
LEAD 6 LITRICAL 2014902
16. FOR APPLICATION OF FIND 6104 65 61768 SEE
LEAD 6 LITRICAL 2014902

F. DEPTHS LENGTH IN FEET	
DEPTH	LENGTH
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2	2.0
3	3.0
4	4.0
5	5.0
6	6.0
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99	99.0
100	100.0

THE

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES

TOLERANCES ON		
DECIMALS	DECIMALS	FRACTIONS
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0.0093	0.0093	0.0093
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100 1000

DO NOT SCALE DRAWING

MATERIAL

[illegible]

DDG INTERFASE ASSM

RDC INTERFACE ASSY

COMPUTER TEST SET

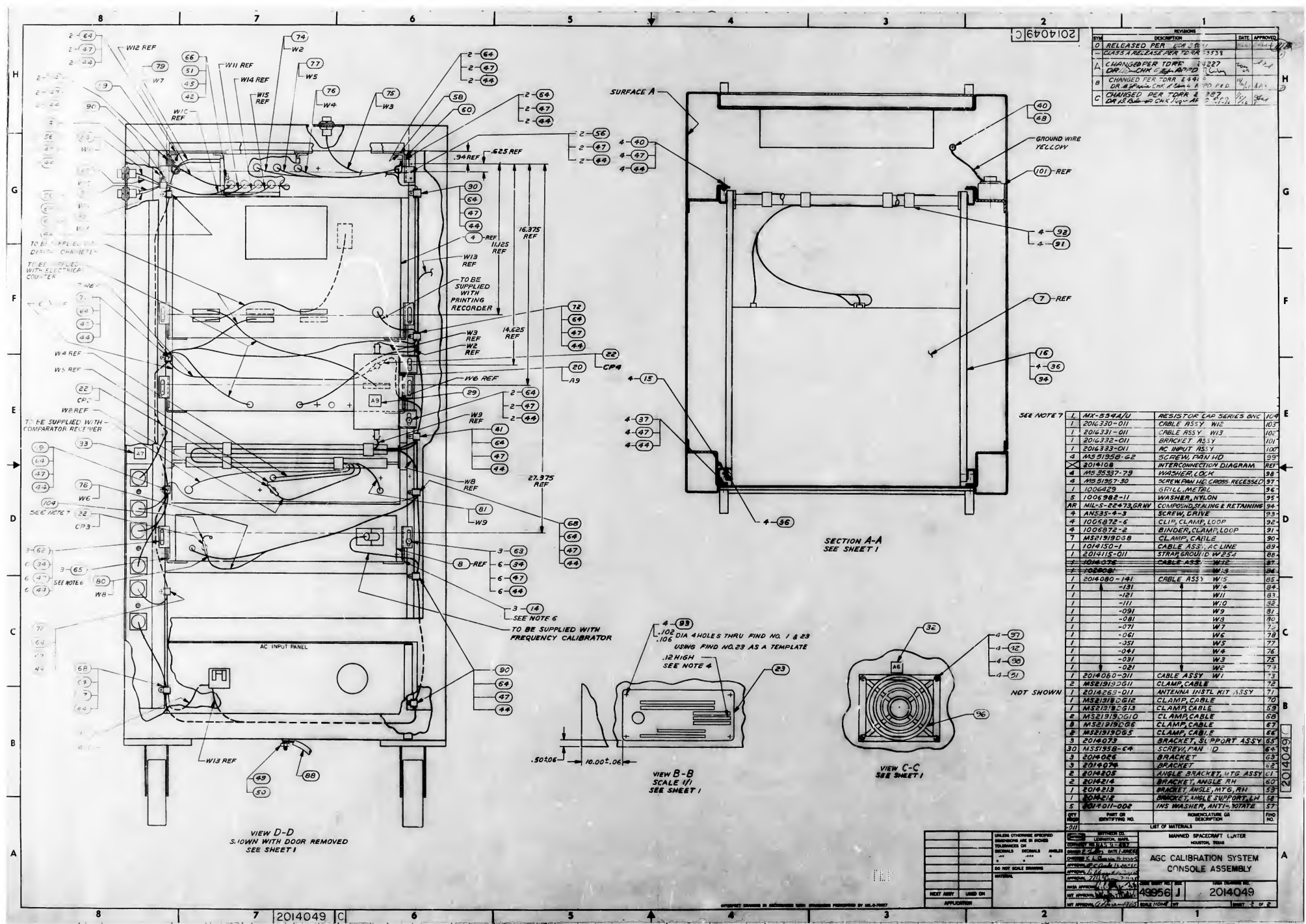
EDGE IDENT. NO.	SIZE	WALL DRAWING NO.
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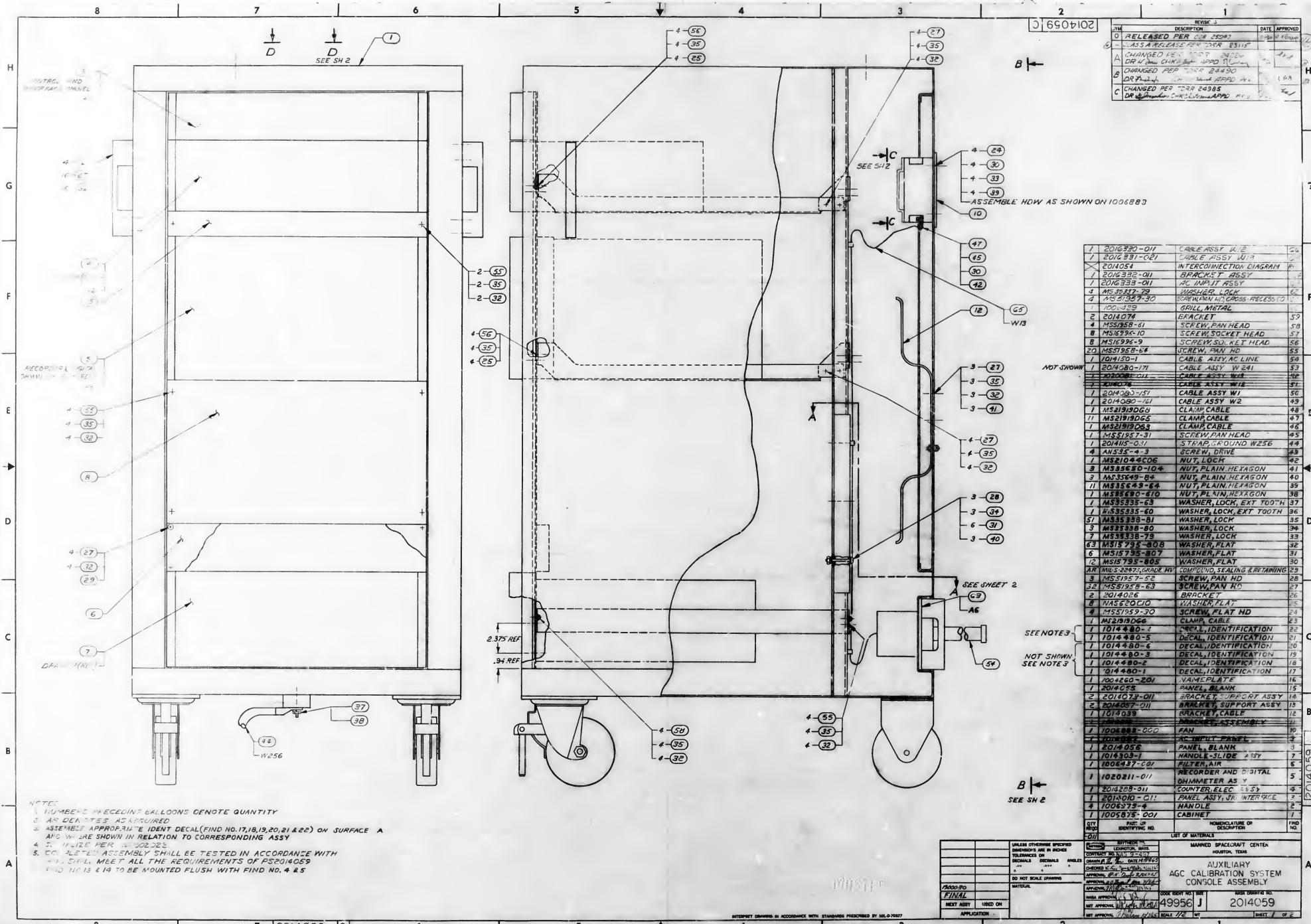
49956-1 2014045

7750	3	EST 1975
SCALE 1/2	NOT	SHEET 1 OF 1

1

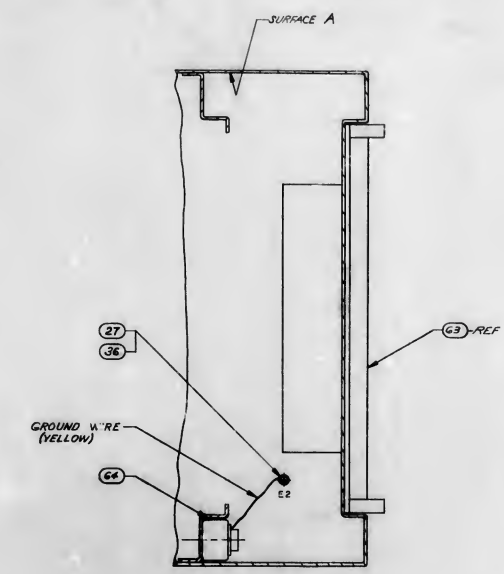
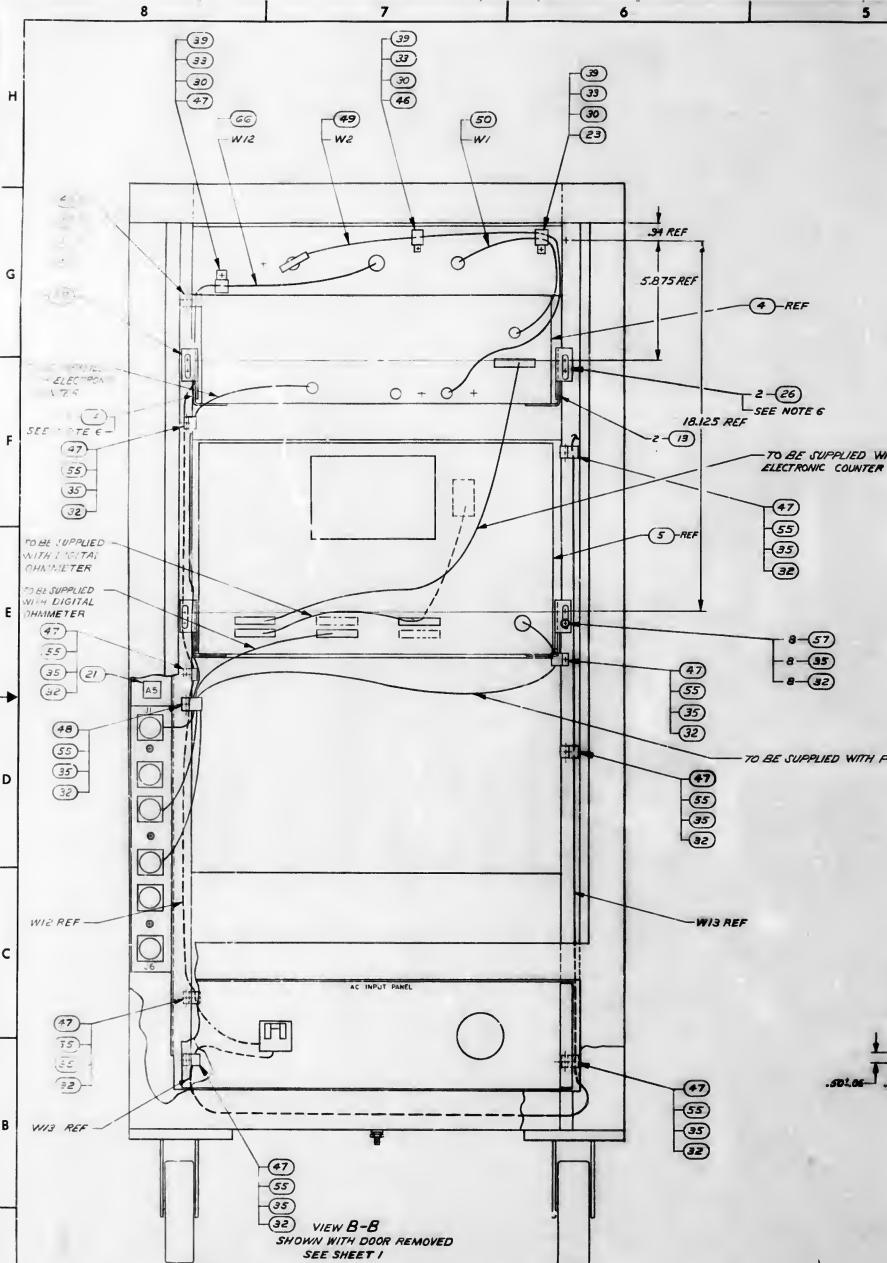
INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70827



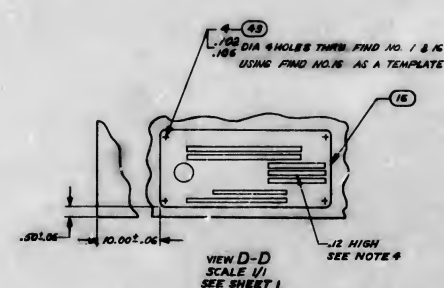


2014059 C

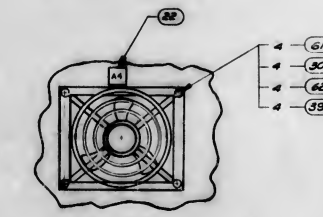
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3	CLASS A REVISION PER TDR 24385	12/15/59	
4	CLASS A REVISION PER TDR 24385	12/15/59	
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15	CLASS A REVISION PER TDR 24385	12/15/59	
16	CLASS A REVISION PER TDR 24385	12/15/59	
17	CLASS A REVISION PER TDR 24385	12/15/59	
18	CLASS A REVISION PER TDR 24385	12/15/59	
19	CLASS A REVISION PER TDR 24385	12/15/59	
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98	CLASS A REVISION PER TDR 24385	12/15/59	
99	CLASS A REVISION PER TDR 24385	12/15/59	
100	CLASS A REVISION PER TDR 24385	12/15/59	



SECTION A-A
SEE SHEET 1



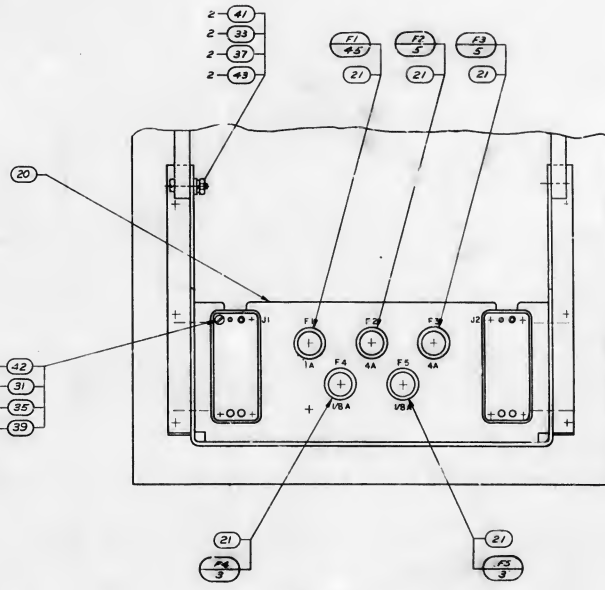
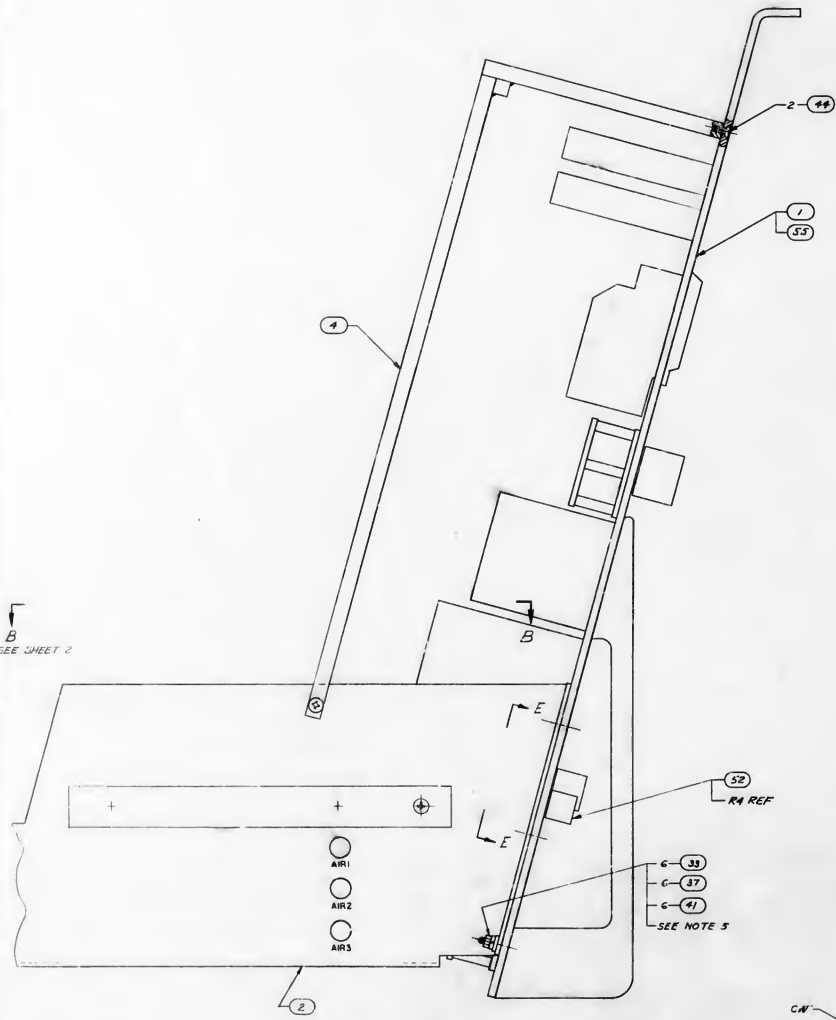
VIEW D-D
SCALE 1/1
SEE SHEET 1



VIEW C-C
SEE SHEET 1

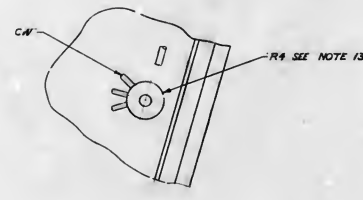
QTY	PART OR IDENTIFYING NO.	DESCRIPTION OR NOMENCLATURE OR IDENTIFICATION	FIND NO.
1	100 DIA HOLES THRU FIND NO. 1 & 2	USING FIND NO. 16 AS A TEMPLATE	1
1	JE HIGH	SEE NOTE 4	4
1	GROUND WIRE (YELLOW)		
1	E2		
1	63-REF		
1	39		
1	30		
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1	100		

H
G
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E
D
C
B
A



VIEW A-A
SEE SHEET 2
VIEW SHOWN WITH FIND NO. 7 & 8 REMOVED

JUMPER CHART					
COND	FROM	TO	COLOR	ANG	REMARKS
C1	TER-11	TER-11	WHT	22	SEE NOTE 10
C2	TER-11	TER-11	WHT	22	SEE NOTE 10
C3	TER-11	TER-11	WHT	22	SEE NOTE 10
C4	TER-11	TER-11	WHT	22	SEE NOTE 10
C5	TER-11	TER-11	WHT	22	SEE NOTE 10
C6	TER-11	TER-11	WHT	22	SEE NOTE 10
C7	TER-11	TER-11	WHT	22	SEE NOTE 10
C8	TER-11	TER-11	WHT	22	SEE NOTE 10
C9	TER-11	TER-11	WHT	22	SEE NOTE 10



SECTION E-E

- NOTES
- NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
 - FABRICATE PER ND1002032
 - SOLDER PER ND1002071
 - 43-33-33, TYPE 3-30FT COATED W/ AWG 31E-22
 - MAXIMUM TORQUE TO BE 18 INCH POUNDS
 - BOND FIND NO. 22 OR FIND NO. 56 TO FIND NO. 2 USING FIND NO. 28
 - AR DENOTES AS REQUIRED
 - SERIALIZE PER ND1002023
 - CLAMP PER ND1002008
 - STRIP EACH END OF CONDUCTOR .16 ±.03 ± ASSEMBLE FIND 49
 - PARTIAL REFERENCE DESIGNATIONS ARE SHOWN FOR COMPLETE DESIGNATIONS PREFIX WITH SUB-ASSEMBLY DESIGNATIONS
 - CUT FIND 51 TO 50 LENGTH, PCS, INSTALL OVER TERMINALS AFTER WIRING
 - R4 (1006427) IS SUPPLIED AS PART OF FIND 19

SYMBOL	DESCRIPTION	DATE	APPROVED
1	CHANGED PER CCA 2524	1/1/58	
2	CHANGED PER CCA 2524	1/1/58	
3	CHANGED PER CCA 2524	1/1/58	
4	CHANGED PER CCA 2524	1/1/58	
5	CHANGED PER CCA 2524	1/1/58	
6	CHANGED PER CCA 2524	1/1/58	
7	CHANGED PER CCA 2524	1/1/58	
8	CHANGED PER CCA 2524	1/1/58	
9	CHANGED PER CCA 2524	1/1/58	
10	CHANGED PER CCA 2524	1/1/58	
11	CHANGED PER CCA 2524	1/1/58	
12	CHANGED PER CCA 2524	1/1/58	
13	CHANGED PER CCA 2524	1/1/58	
14	CHANGED PER CCA 2524	1/1/58	
15	CHANGED PER CCA 2524	1/1/58	
16	CHANGED PER CCA 2524	1/1/58	
17	CHANGED PER CCA 2524	1/1/58	
18	CHANGED PER CCA 2524	1/1/58	
19	CHANGED PER CCA 2524	1/1/58	
20	CHANGED PER CCA 2524	1/1/58	
21	CHANGED PER CCA 2524	1/1/58	
22	CHANGED PER CCA 2524	1/1/58	
23	CHANGED PER CCA 2524	1/1/58	
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26	CHANGED PER CCA 2524	1/1/58	
27	CHANGED PER CCA 2524	1/1/58	
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49	CHANGED PER CCA 2524	1/1/58	
50	CHANGED PER CCA 2524	1/1/58	
51	CHANGED PER CCA 2524	1/1/58	
52	CHANGED PER CCA 2524	1/1/58	

SYMBOL	DESCRIPTION	DATE	APPROVED
1	1004260-266	NAMEPLATE	1/1/58
2	2014297-021	FRONT PANEL ASSY	1/1/58
3	MS21322-38	CLAMP, LOOP	1/1/58
4	2014108-011	WIRING HARNESS	1/1/58
5	2014156	SCHEMATIC	1/1/58
6	MS21919D66	CLAMP, LOOP	1/1/58
7	MS91528-1E23	WASHER, CONTROL, ROUND	1/1/58
8	MS21322-38	CLAMP, LOOP	1/1/58
9	MS21322-38	CLAMP, LOOP	1/1/58
10	MS21322-38	CLAMP, LOOP	1/1/58
11	MS21322-38	CLAMP, LOOP	1/1/58
12	MS21322-38	CLAMP, LOOP	1/1/58
13	MS21322-38	CLAMP, LOOP	1/1/58
14	MS21322-38	CLAMP, LOOP	1/1/58
15	MS21322-38	CLAMP, LOOP	1/1/58
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48	MS21322-38	CLAMP, LOOP	1/1/58
49	MS21322-38	CLAMP, LOOP	1/1/58
50	MS21322-38	CLAMP, LOOP	1/1/58
51	MS21322-38	CLAMP, LOOP	1/1/58
52	MS21322-38	CLAMP, LOOP	1/1/58

* DENOTES LENGTH IN FEET

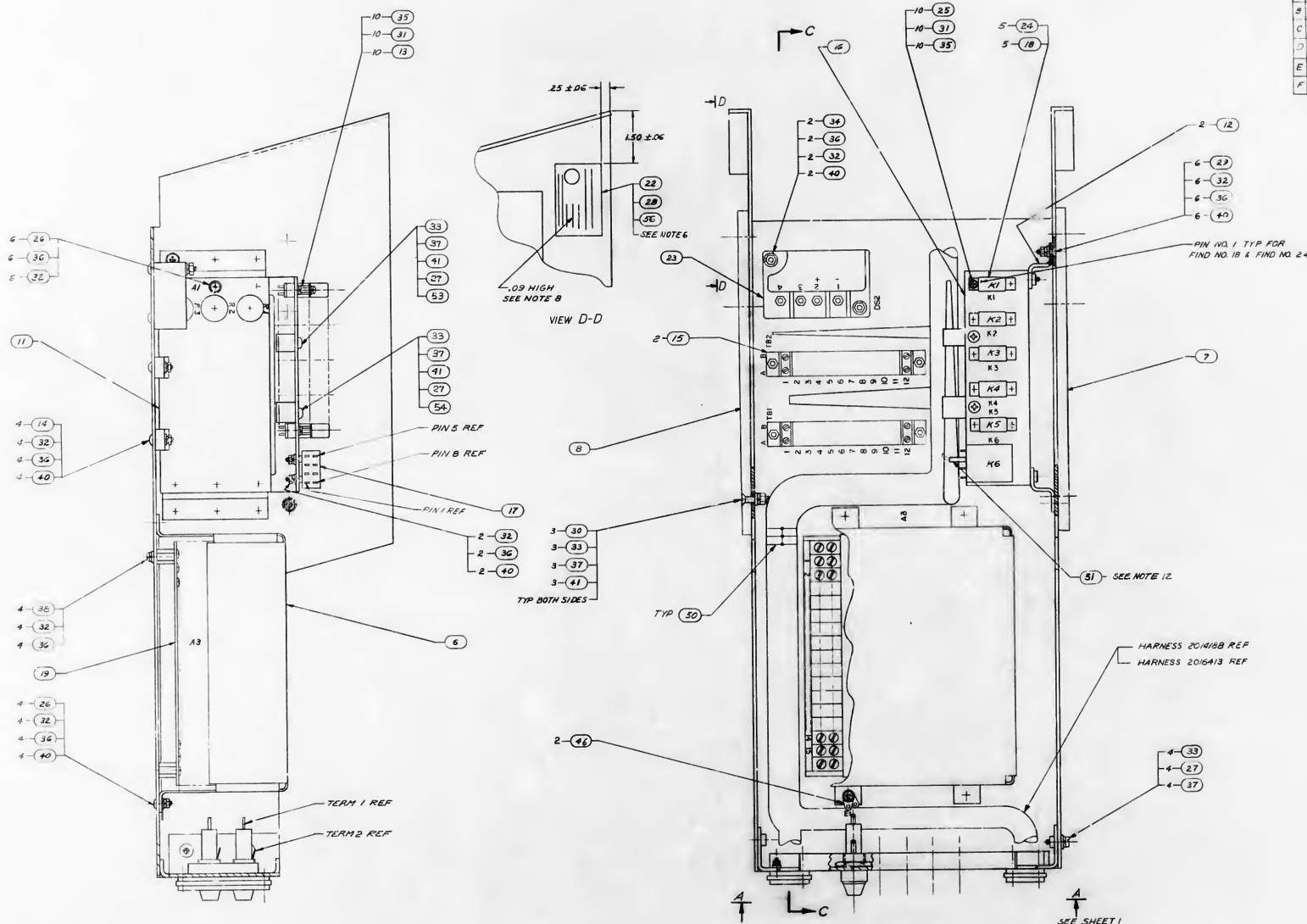
QTY	DESCRIPTION	QTY	DESCRIPTION
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2	2014297-021	2	2014297-021
3	MS21322-38	3	MS21322-38
4	2014108-011	4	2014108-011
5	2014156	5	2014156
6	MS21919D66	6	MS21919D66
7	MS91528-1E23	7	MS91528-1E23
8	MS21322-38	8	MS21322-38
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52	MS21322-38	52	MS21322-38

POWER CONTROL ASSY
OPERATION CONSOLE

2014079 J

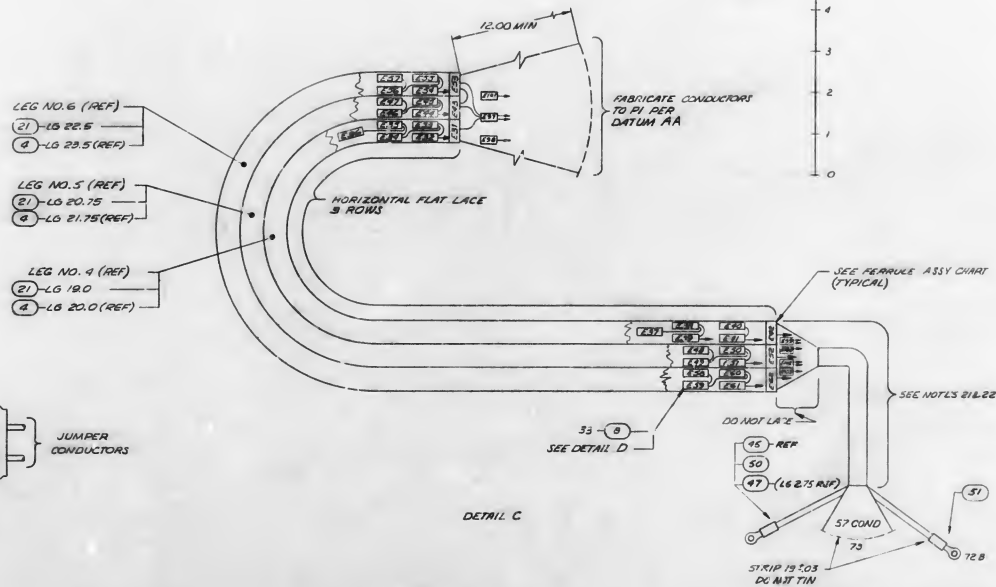
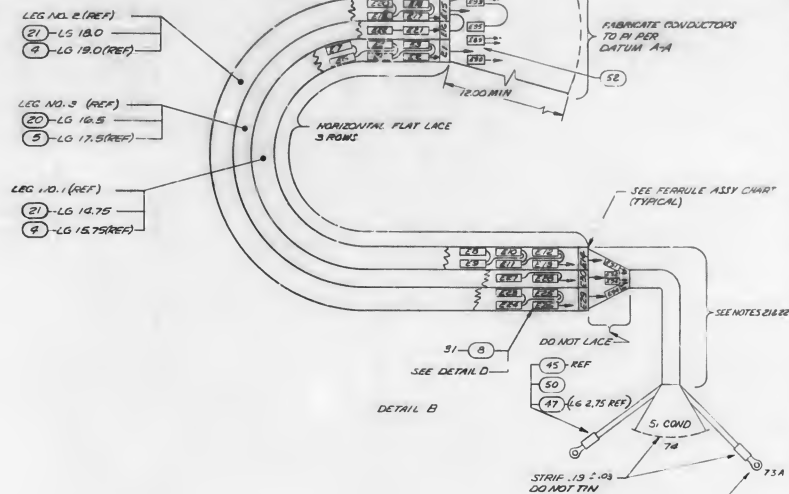
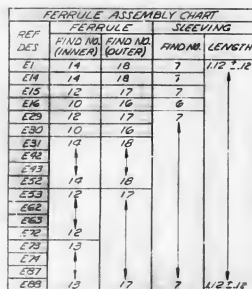
2014079 J

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-STD-883C

[illegible]

SECTION B-B
ROTATED COUNTERCLOCKWISE 90°
SEE SHEET 1
SHOWN WITH FIND NO. 1 & 4 REMOVED

[illegible]



DATE		DESCRIPTION	DATE	APPROVED
15	6/5	CLASS 9 RELEASED PER TOUR 2 678	6/5	100
14	4	CHANGED PER TOUR 8888. OR BIRD CNE. (Name) OK.	6/5	100
13		CHANGED PER TOUR 8888	6/5	100
12		OR 8888-2nd. CH. 6/5 8888 400.	6/5	100

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- SEE REAMMER ASSY CHART
(TYPICAL)

5° COND

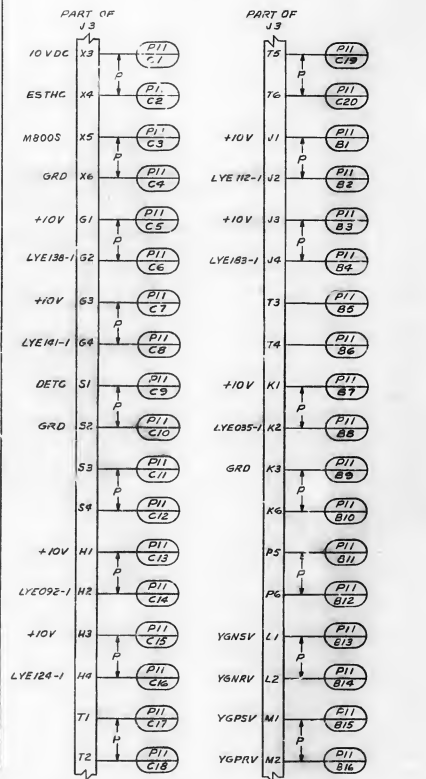
73

72.8

SEE NOTES 21 & 22

ASSEMBLY INFORMATION CHART												
FROM	TO	DESCRIPTION	TO	DESCRIPTION	TO	DESCRIPTION	TO	DESCRIPTION	TO	DESCRIPTION	TO	DESCRIPTION
REMARKS	COND	ITEM	STM	NO	DES	COND	ITEM	STM	NO	DES	REMARKS	COND
LEG NO. 4 REF		A125	61	PI-314	WHT	24	1	73	P3-23	WHT		
		A126	62	PI-314	WHT	24	2	73	P3-23	WHT		
		A127	63	PI-314	WHT	24	3	73	P3-23	WHT		
		A128	64	PI-314	WHT	24	4	73	P3-23	WHT		
		A129	65	PI-314	WHT	24	5	73	P3-23	WHT		
		A130	66	PI-314	WHT	24	6	73	P3-23	WHT		
		A131	67	PI-314	WHT	24	7	73	P3-23	WHT		
		A132	68	PI-314	WHT	24	8	73	P3-23	WHT		
		A133	69	PI-314	WHT	24	9	73	P3-23	WHT		
		A134	70	PI-314	WHT	24	10	73	P3-23	WHT		
		A135	71	PI-314	WHT	24	11	73	P3-23	WHT		
		A136	72	PI-314	WHT	24	12	73	P3-23	WHT		
		A137	73	PI-314	WHT	24	13	73	P3-23	WHT		
		A138	74	PI-314	WHT	24	14	73	P3-23	WHT		
		A139	75	PI-314	WHT	24	15	73	P3-23	WHT		
		A140	76	PI-314	WHT	24	16	73	P3-23	WHT		
		A141	77	PI-314	WHT	24	17	73	P3-23	WHT		
		A142	78	PI-314	WHT	24	18	73	P3-23	WHT		
		A143	79	PI-314	WHT	24	19	73	P3-23	WHT		
		A144	80	PI-314	WHT	24	20	73	P3-23	WHT		
		A145	81	PI-314	WHT	24	21	73	P3-23	WHT		
		A146	82	PI-314	WHT	24	22	73	P3-23	WHT		
		A147	83	PI-314	WHT	24	23	73	P3-23	WHT		
		A148	84	PI-314	WHT	24	24	73	P3-23	WHT		
		A149	85	PI-314	WHT	24	25	73	P3-23	WHT		
		A150	86	PI-314	WHT	24	26	73	P3-23	WHT		
		A151	87	PI-314	WHT	24	27	73	P3-23	WHT		
		A152	88	PI-314	WHT	24	28	73	P3-23	WHT		
		A153	89	PI-314	WHT	24	29	73	P3-23	WHT		
		A154	90	PI-314	WHT	24	30	73	P3-23	WHT		
		A155	91	PI-314	WHT	24	31	73	P3-23	WHT		
		A156	92	PI-314	WHT	24	32	73	P3-23	WHT		
		A157	93	PI-314	WHT	24	33	73	P3-23	WHT		
		A158	94	PI-314	WHT	24	34	73	P3-23	WHT		
		A159	95	PI-314	WHT	24	35	73	P3-23	WHT		
		A160	96	PI-314	WHT	24	36	73	P3-23	WHT		
		A161	97	PI-314	WHT	24	37	73	P3-23	WHT		
		A162	98	PI-314	WHT	24	38	73	P3-23	WHT		
		A163	99	PI-314	WHT	24	39	73	P3-23	WHT		
		A164	100	PI-314	WHT	24	40	73	P3-23	WHT		
		A165	101	PI-314	WHT	24	41	73	P3-23	WHT		
		A166	102	PI-314	WHT	24	42	73	P3-23	WHT		
		A167	103	PI-314	WHT	24	43	73	P3-23	WHT		
		A168	104	PI-314	WHT	24	44	73	P3-23	WHT		
		A169	105	PI-314	WHT	24	45	73	P3-23	WHT		
		A170	106	PI-314	WHT	24	46	73	P3-23	WHT		
		A171	107	PI-314	WHT	24	47	73	P3-23	WHT		
		A172	108	PI-314	WHT	24	48	73	P3-23	WHT		
		A173	109	PI-314	WHT	24	49	73	P3-23	WHT		
		A174	110	PI-314	WHT	24	50	73	P3-23	WHT		
		A175	111	PI-314	WHT	24	51	73	P3-23	WHT		
		A176	112	PI-314	WHT	24	52	73	P3-23	WHT		
		A177	113	PI-314	WHT	24	53	73	P3-23	WHT		
		A178	114	PI-314	WHT	24	54	73	P3-23	WHT		
		A179	115	PI-314	WHT	24	55	73	P3-23	WHT		
		A180	116	PI-314	WHT	24	56	73	P3-23	WHT		
		A181	117	PI-314	WHT	24	57	73	P3-23	WHT		
		A182	118	PI-314	WHT	24	58	73	P3-23	WHT		
		A183	119	PI-314	WHT	24	59	73	P3-23	WHT		
		A184	120	PI-314	WHT	24	60	73	P3-23	WHT		
		A185	121	PI-314	WHT	24	61	73	P3-23	WHT		
		A186	122	PI-314	WHT	24	62	73	P3-23	WHT		
		A187	123	PI-314	WHT	24	63	73	P3-23	WHT		
		A188	124	PI-314	WHT	24	64	73	P3-23	WHT		
		A189	125	PI-314	WHT	24	65	73	P3-23	WHT		
		A190	126	PI-314	WHT	24	66	73	P3-23	WHT		
		A191	127	PI-314	WHT	24	67	73	P3-23	WHT		
		A192	128	PI-314	WHT	24	68	73	P3-23	WHT		
		A193	129	PI-314	WHT	24	69	73	P3-23	WHT		
		A194	130	PI-314	WHT	24	70	73	P3-23	WHT		
		A195	131	PI-314	WHT	24	71	73	P3-23	WHT		
		A196	132	PI-314	WHT	24	72	73	P3-23	WHT		
		A197	133	PI-314	WHT	24	73	73	P3-23	WHT		
		A198	134	PI-314	WHT	24	74	73	P3-23	WHT		
		A199	135	PI-314	WHT	24	75	73	P3-23	WHT		
		A200	136	PI-314	WHT	24	76	73	P3-23	WHT		
		A201	137	PI-314	WHT	24	77	73	P3-23	WHT		
		A202	138	PI-314	WHT	24	78	73	P3-23	WHT		
		A203	139	PI-314	WHT	24	79	73	P3-23	WHT		
		A204	140	PI-314	WHT	24	80	73	P3-23	WHT		
		A205	141	PI-314	WHT	24	81	73	P3-23	WHT		
		A206	142	PI-314	WHT	24	82	73	P3-23	WHT		
		A207	143	PI-314	WHT	24	83	73	P3-23	WHT		
		A208	144	PI-314	WHT	24	84	73	P3-23	WHT		
		A209	145	PI-314	WHT	24	85	73	P3-23	WHT		

ASSEMBLY INFORMATION CHART												
		FROM			DESCRIPTION					TO		
REMARKS	COND	IDEN	STM	NO	DES	COLOR	ANG	FIND	STM	NO	DES	REMARKS
LEG NO. 5 REF		A210	25	PI-307	BLK	22	3				E101	
		A211	26		E93		3				E97	
		A212	27		E94						E98	
		A213	28		E95						E96	
		A214	29		E96						E97	
		A215	30		E98						E99	
		A216	31		E99						E50	
		A217	32		E90						E51	
		A218	33		E57						E102	
		A219	34		E52	BLK	22	3			E100	
LEG NO. 5 REF					E43	BRAID	36	4			E32	
LEG NO. 6 REF		A221			E93	BLK	22	3			E53	LEG NO. 6 REF
LEG NO. 6 REF		A222	72	PI-115	WHT		24	1	73	PI-3		TWIST
		A223	73	PI-504	BLK			2	73	E35		
		A224	74	PI-503	WHT			1	73	PI-1		
		A225		E54	BLK			2		E38		
		A226	4	PI-308	WHT			1	73	PI-C		
		A227		E54	BLK			2		E38		
		A228	13	PI-503	WHT			1	73	PI-1		
		A229		E54	BLK			2		E38		
		A230	40	PI-610	WHT			1	73	PI-B		
		A231		E55	BLK			2		E39		
		A232	43	PI-611	WHT			1	73	PI-B		
		A233		E56	BLK			2		E39		
		A234	50	PI-702	WHT			1	73	PI-M		
		A235		E53	BLK			2		E39		
		A236	30	PI-701	WHT			1	73	PI-2		
		A237		E56	BLK			2		E60		
		A238	38	PI-810	WHT			1	73	PI-5		
		A239		E56	BLK			2		E80		
		A240	58	PI-916	WHT			1	73	PI-C		
		A241		E56	BLK			2		E60		
		A242	36	PI-913	WHT			1	73	PI-5		
		A243		E56	BLK			1	73	E61		
		A244	10	PI-906	WHT			1	73	PI-P		
		A245		E57	BLK			2		E61		
		A246	19	PI-906	WHT			1	73	PI-P		
		A247		E57	BLK			2		E61		
		A248	47	PI-811	WHT			1	73	PI-U		
		A249		E58	BLK			2		E62		
		A250	25	PI-908	WHT			1	73	PI-U		
		A251		E57	BLK		24	2		E61	TWIST	
		A252		E53	BLK		22	3		E97		
		A253		E57						E56		
		A254		E53						E56		
		A255		E58						E57		
		A256		E58						E59		
		A257		E59						E60		
		A258		E60						E61		
		A259		E60						E103		
LEG NO. 6 REF		A260		E62	BLK		22	3			E100	
					E53	BRAID	36	4			E62	
LEG NO. 7 REF		A262	5	PI-201	WHT		24	1	73	PI-3		TWIST
		A263		E69	BLK			2		E68		
		A264	5	PI-202	WHT			1	73	PI-6		
		A265		E69	BLK			2		E68		
		A266	17	PI-203	WHT			1	73	PI-1		
		A267		E69	BLK			2		E68		
		A268	17	PI-204	WHT			1	73	PI-6		
		A269		E68	BLK			2		E68		
		A270	26	PI-203	WHT			1	73	PI-M		
		A271		E68	BLK			2		E69		
		A272	26	PI-206	WHT			1	73	PI-P		
		A273		E63	BLK			2		E63		
		A274	36	PI-207	WHT			1	73	PI-M		
		A275		E63	BLK			2		E63		
		A276	38	PI-208	WHT			1	73	PI-P		
		A277		E63	BLK			2		E63		
		A278	44	PI-209	WHT			1	73	PI-2		
		A279		E66	BLK			2		E70		
		A280	44	PI-210	WHT			1	73	PI-3		
		A281		E66	BLK			2		E70		
		A282	53	PI-211	WHT			1	73	PI-2		
		A283		E66	BLK			2		E70		
		A284	53	PI-212	WHT			1	73	PI-4		
		A285		E66	BLK			2		E70		
		A286	62	PI-213	WHT			1	73	PI-6		
		A287		E67	BLK			2		E71		
		A288	62	PI-214	WHT			1	73	PI-6		
LEG NO. 7 REF		A289		E67	BLK		24	2		E71	TWIST	

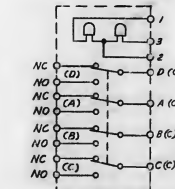
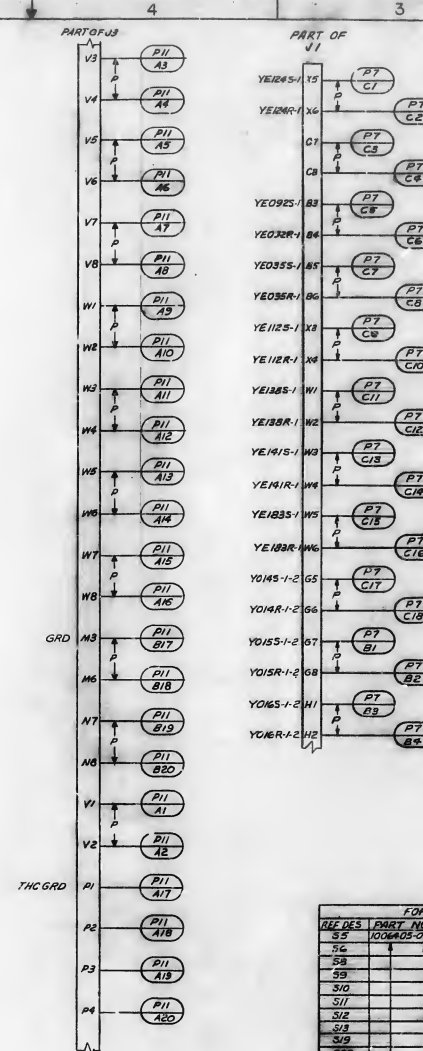


NOTES:

1. PARTIAL REFERENCE DESIGNATIONS
ARE SHOWN: FOR COMPLETE DESIGNATIONS
PREFIX WITH SUB-ASSEMBLY DESIGNATIONS
2. MIL-5-6743 TYPE M 6743/3-029
3. INTERPRET DRAWING IN ACCORDANCE WITH
STANDARDS PRESCRIBED BY MIL-D-70327

REFERENCES.

1. ASSEMBLY DWG 2014040
2. ASSEMBLY DWG A1 2014348
3. ASSEMBLY DWG A2 2014381
4. ASSEMBLY DWG A3 2014283



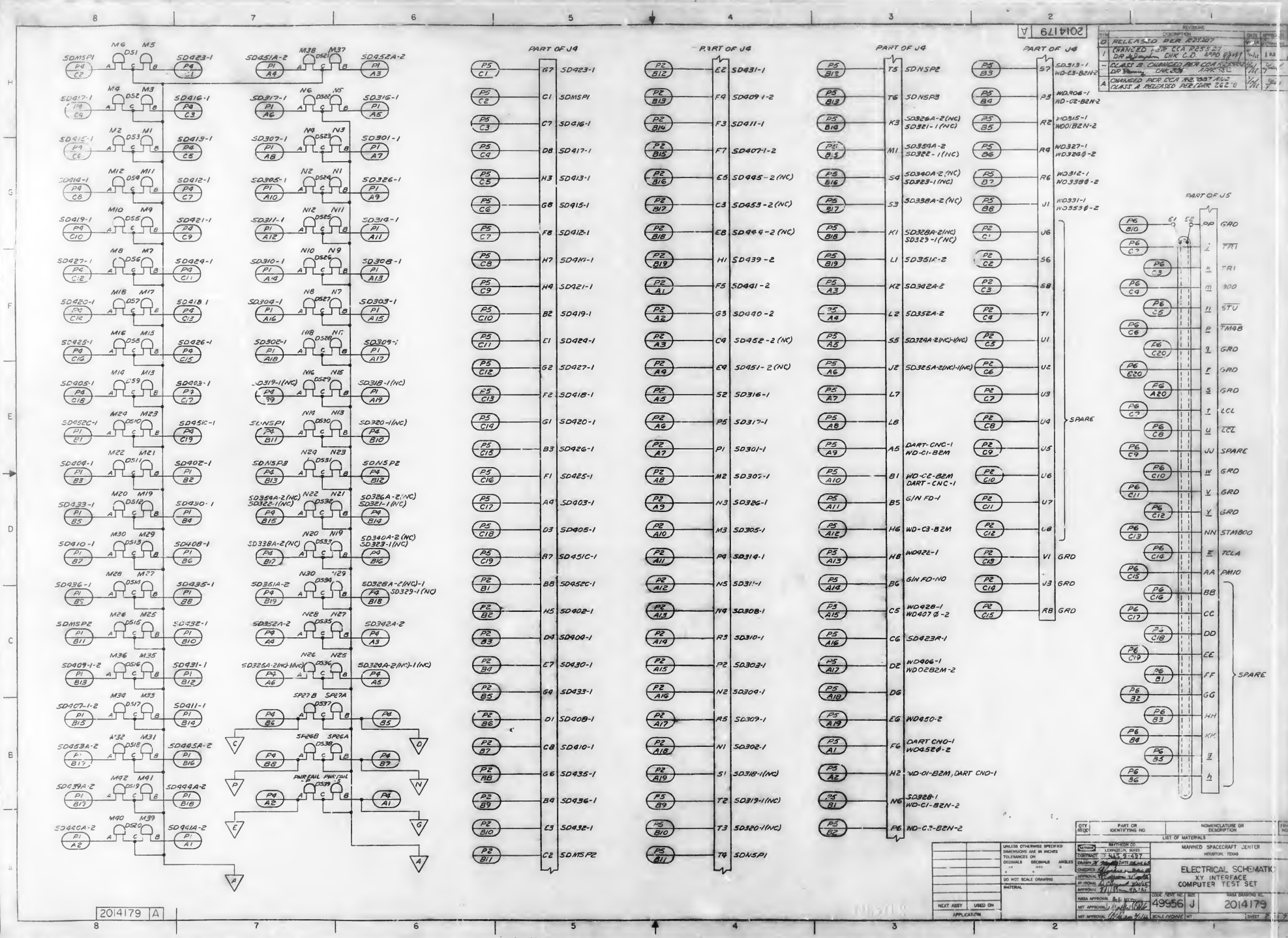
TYPICAL SWITCH SCHEMATIC
S5, S6, S8 THRU S13, S19 THRU S24, S27 THRU S36

FOR REFERENCE ONLY				
REF DES	PART NO.	DESCRIPTION	VALUE	TOL RATING
35	100M403-002	SWITCH		
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
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87				
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97				
98				
99				
100				

FOR REFERENCE ONLY				
REF DES	PART NO.	DESCRIPTION	VALUE	TOL RATING
R1, R4	1006448-008	POT.	1K	1% 2W
R2, R3, R5	1006448-001	POT.	2.5K	1% 2W
R1	1010389-89	RESISTOR	510	1% 3W
C1, C2, C3 C4, C6	1006755-89	CAPACITOR	47UF	35V
C5	1006755-133	CAPACITOR	18UF	50V

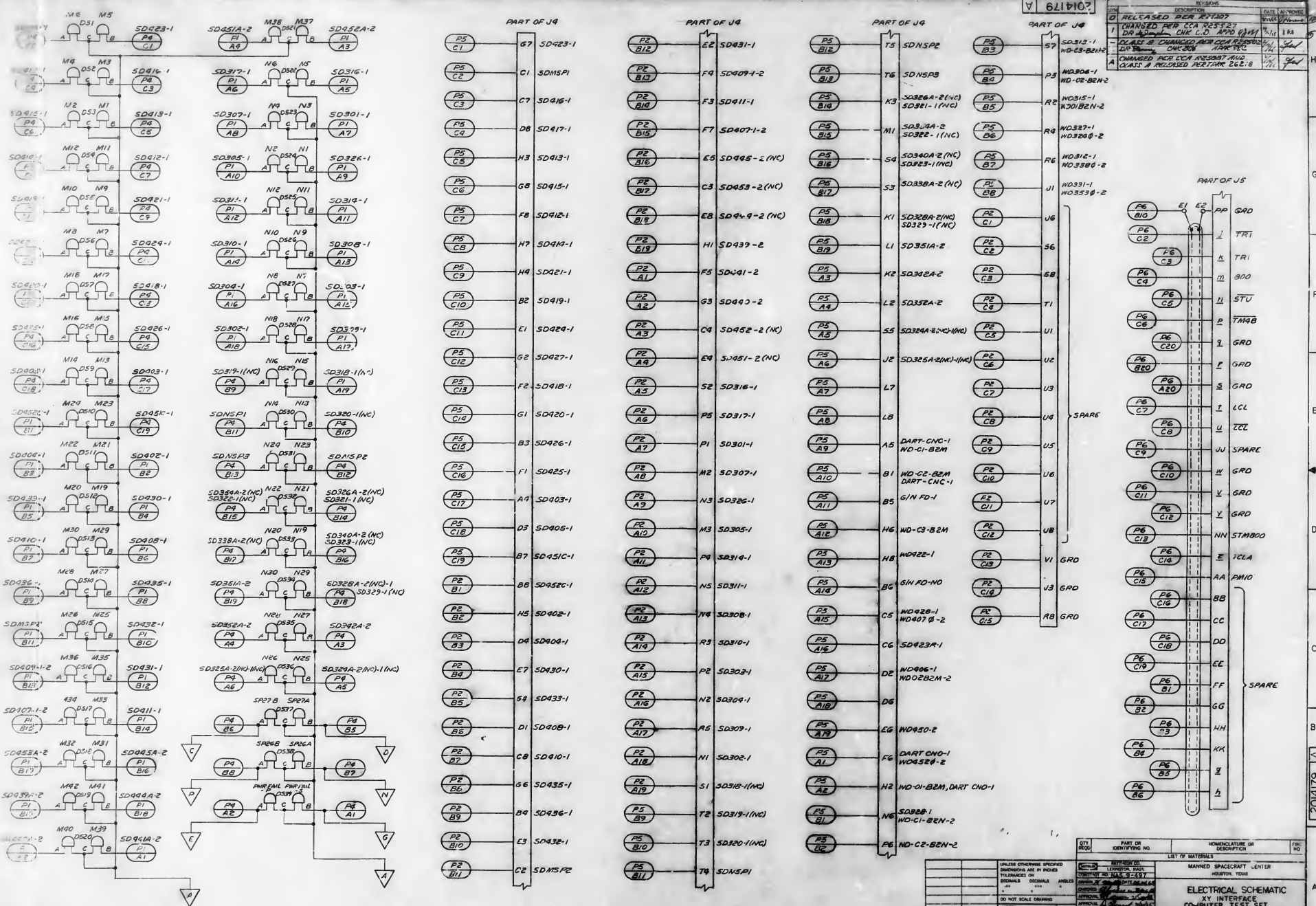
REF.	DESCRIPTION	RESISTIVE	SI	SW	SW
R6, R8	10/0389-19	RESISTOR	510	1%	3W
R1, R9	10/0389-39	RESISTOR	200	1%	3W
T1, T2	100676-1	TRANSFORMER			
W1, W2, W3	MS3173-10M	CONNECTOR			
D51	100676-00	LIGHT			
D52					
D53					
D54					
D55					
D56					
D57					
D58					
D59					
D510					
D511					
D512					
D513					
D514					
D515					
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D526					
D527					
D528					
D529					
D530					
D531					
D532					
D533					
D534					
D535					
D536					
D537					
D538		100676-00	LIGHT		
S1, S3, S5	100689-00	SWITCH			
S17	100689-02				
S18	1006876-1				
S19	100689-00				
S15	1006877				
S4, S2, S3, S5	SEE NOTE 2				
S4, S7	1006870-02	SWITCH			

QTY REQD	PART CONTRACT IDENTIFYING NO	NOMINATION ON DESCRIPTION
LIST OF MATERIALS		
MATHEMATICS LEARNING OBJECT, BEARS CONTRACT NO. HAS 9-987 CONTRACT IDENTIFYING NO. DATE 1964 COMPLETION DATE 1964 APPROVAL DATE 1964 NAME DATE 1964 TITLE DATE 1964 NAME DATE 1964 TITLE DATE 1964 NAME DATE 1964 TITLE DATE 1964 NAME DATE 1964 TITLE DATE 1964		
MANNED SPACECRAFT CENTER HOUSTON, TEX-1		
ELECTRICAL SCHEMATIC X Y INTERFACE COMPUTER TEST SET		
QTY REQD	PART CONTRACT IDENTIFYING NO	NOMINATION ON DESCRIPTION
LIST OF MATERIALS		
MATHEMATICS LEARNING OBJECT, BEARS CONTRACT NO. HAS 9-987 CONTRACT IDENTIFYING NO. DATE 1964 COMPLETION DATE 1964 APPROVAL DATE 1964 NAME DATE 1964 TITLE DATE 1964 NAME DATE 1964 TITLE DATE 1964 NAME DATE 1964 TITLE DATE 1964 NAME DATE 1964 TITLE DATE 1964		
MANNED SPACECRAFT CENTER HOUSTON, TEX-1		
ELECTRICAL SCHEMATIC X Y INTERFACE COMPUTER TEST SET		
QTY REQD	PART CONTRACT IDENTIFYING NO	NOMINATION ON DESCRIPTION
LIST OF MATERIALS		
MATHEMATICS LEARNING OBJECT, BEARS CONTRACT NO. HAS 9-987 CONTRACT IDENTIFYING NO. DATE 1964 COMPLETION DATE 1964 APPROVAL DATE 1964 NAME DATE 1964 TITLE DATE 1964 NAME DATE 1964 TITLE DATE 1964 NAME DATE 1964 TITLE DATE 1964		
MANNED SPACECRAFT CENTER HOUSTON, TEX-1		
ELECTRICAL SCHEMATIC X Y INTERFACE COMPUTER TEST SET		



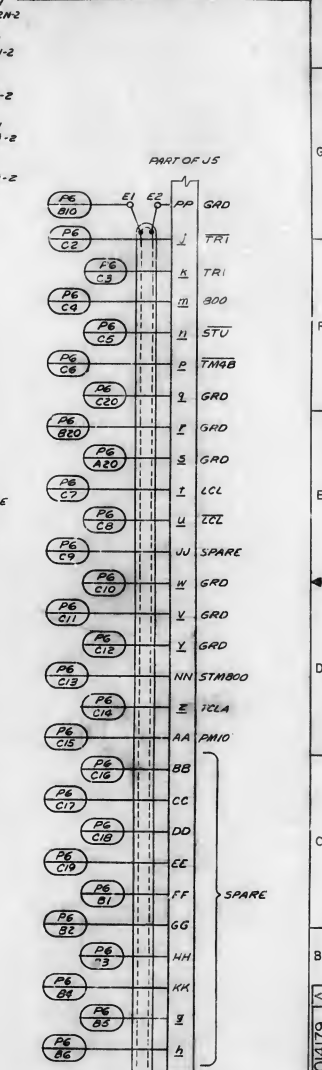
2014179 A

49956 J 2014179



6210102

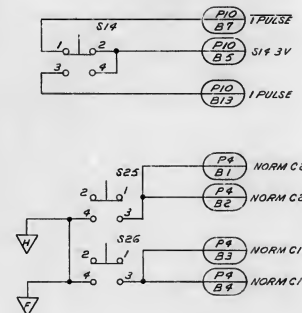
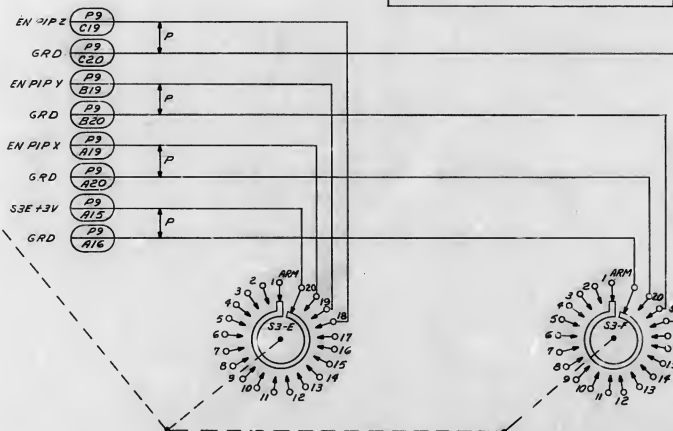
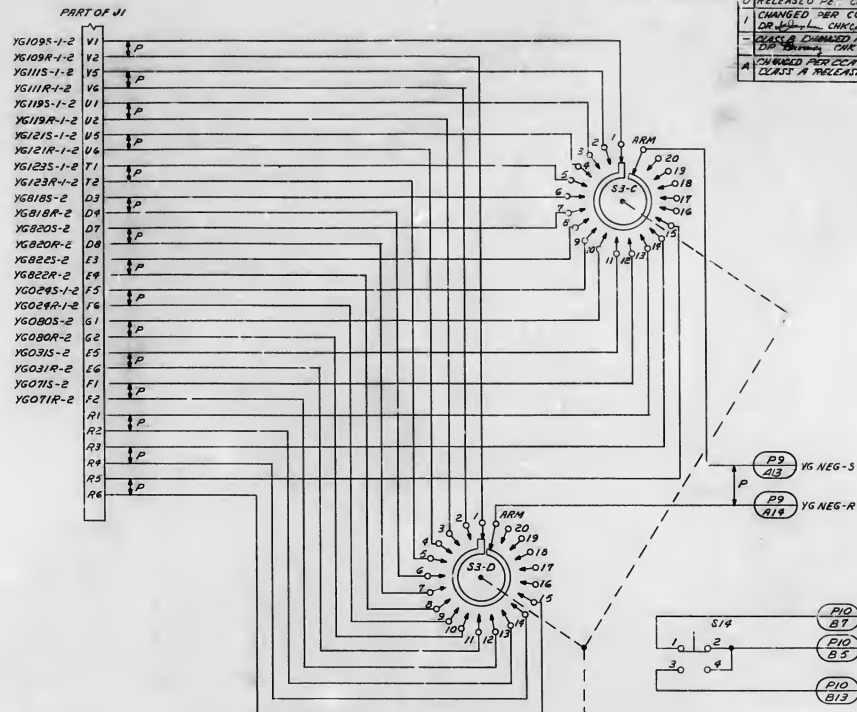
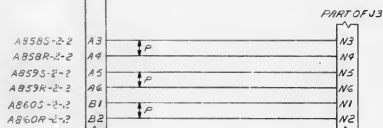
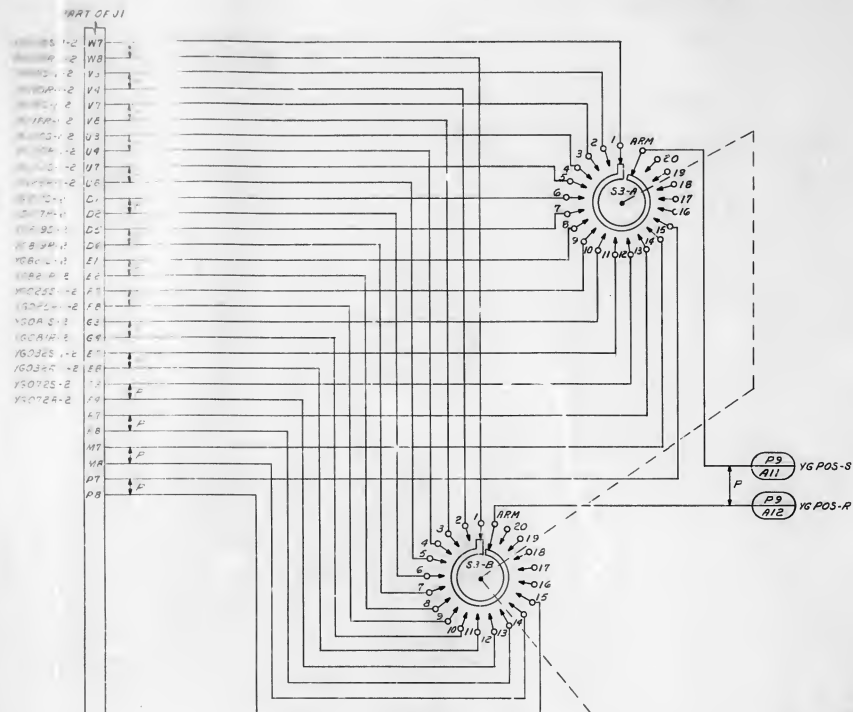
REVISION	DESCRIPTION	DATE	BY	CHK
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1	CHANGED PER CCA 925327			
2	CHANGED PER CCA 925327			
3	CHANGED PER CCA 925327			
4	CHANGED PER CCA 925327			
5	CHANGED PER CCA 925327			
6	CHANGED PER CCA 925327			
7	CHANGED PER CCA 925327			
8	CHANGED PER CCA 925327			
9	CHANGED PER CCA 925327			



2014179 A

2014179 A

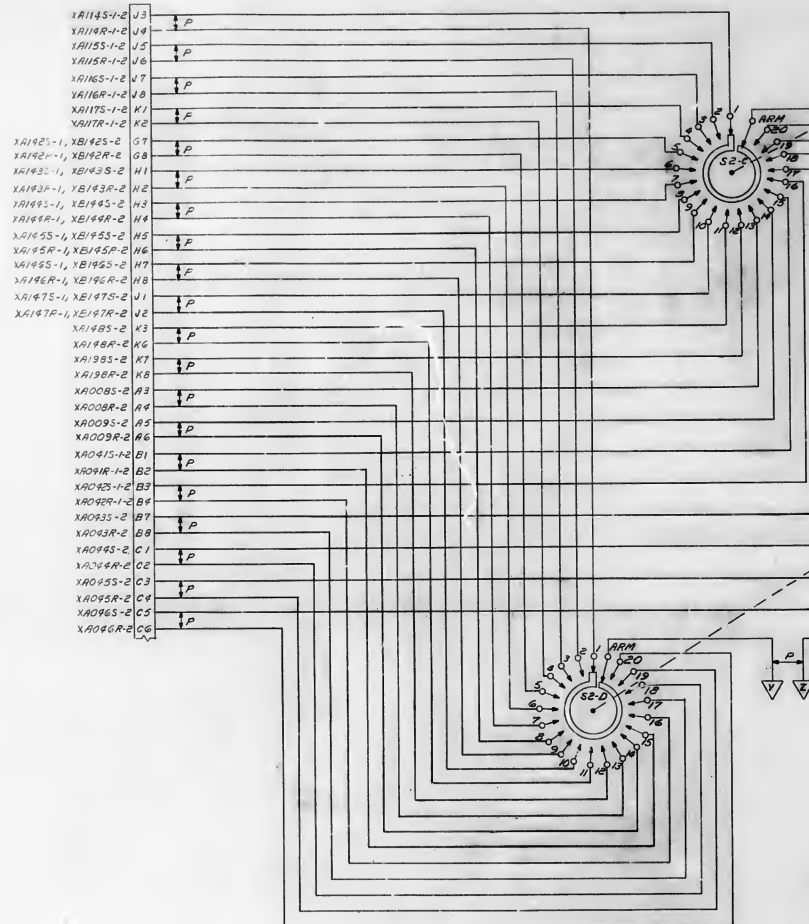
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DIMENSIONS ARE FRACTIONS DECIMALS DIMS DO NOT SCALE DRAWING MATERIAL:	REVISIONS BY DATE DESCRIPTION 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000	DATE APPROVED 49956 J 2014179
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REV	DESCRIPTION	DATE	APPROVED
0	RELEASED PER CCA 225207	10/16/66	J. J. J.
1	CHANGED PER CCA 225567	10/16/66	J. J. J.
2	CLASSIFIED AND CCA 225567	10/16/66	J. J. J.
3	CLASSIFIED AND CCA 225567	10/16/66	J. J. J.
4	CHANGED PER CCA 225567 AND	10/16/66	J. J. J.
5	CLASSIFIED AND CCA 225567	10/16/66	J. J. J.

QTY	PART OR IDENTIFYING NO.	NON-ENCLOSURE OR DESCRIPTION	FIELD NO.
LIST OF MATERIALS			
MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
ELECTRICAL SCHEMATIC X Y INTERFACE COMPUTER TEST SET			
49956 J			
2014179			
REVISION 1			

PART OF J2



S1, S2, S3

POSITION	MARKING
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20

POSITION	MARKING
1	NO 2

S4, S5

POSITION	MARKING
1	100
2	200
3	300

POSITION	MARKING
1	NC

S16

POSITION	MARKING
1	OFF
2	FR 5
3	FR 7
4	FR Y

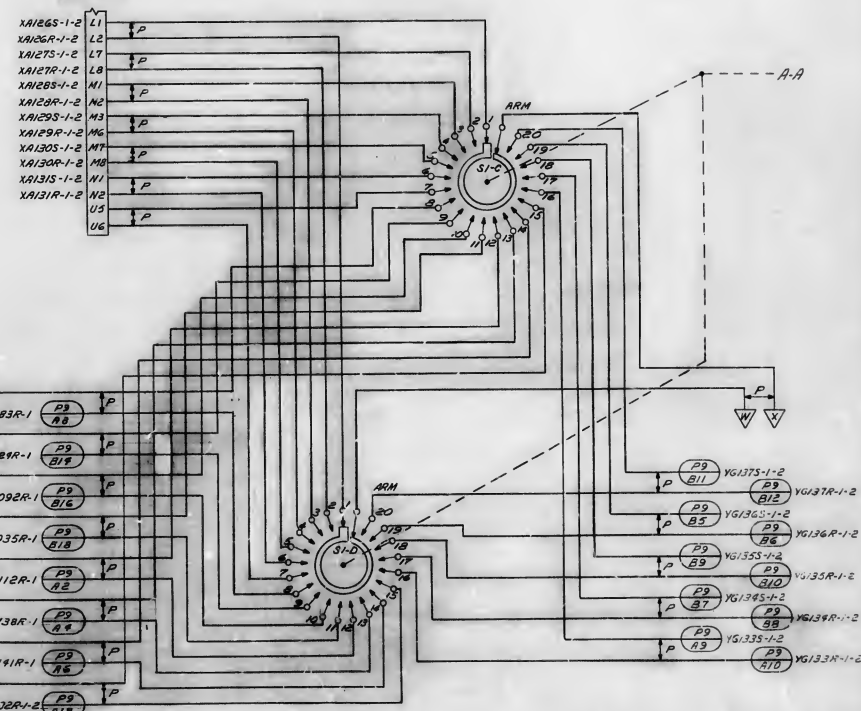
S17

POSITION	MARKING
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2	T = NEG
3	S = NEG
4	T = POS

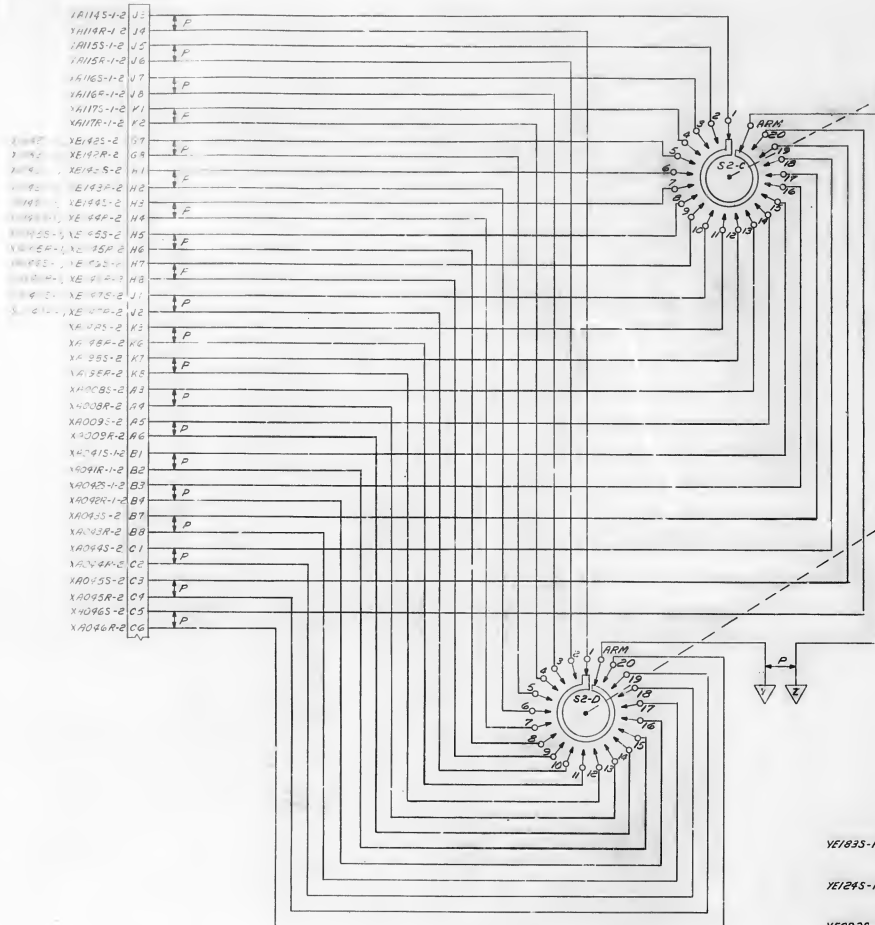
S18

POSITION	MARKING
1	VO
2	VI
3	NORM
4	V2
5	V3

PART OF J2



PART OF J2



S1, S2, S3

POSITION	MARKING
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20

S25

POSITION	MARKING
1	NO 2

S4, S7

POSITION	MARKING
1	100
2	200
3	300

S14

POSITION	MARKING
NO	SINGLE
NC	PULSE

S15

POSITION	MARKING
1	S
2	T
3	V
4	OFF
5	S+T
6	T+V
7	S+V

S26

POSITION	MARKING
1	NO 1

S16

POSITION	MARKING
2	FR 5
3	FR 7
4	FR 9

S17

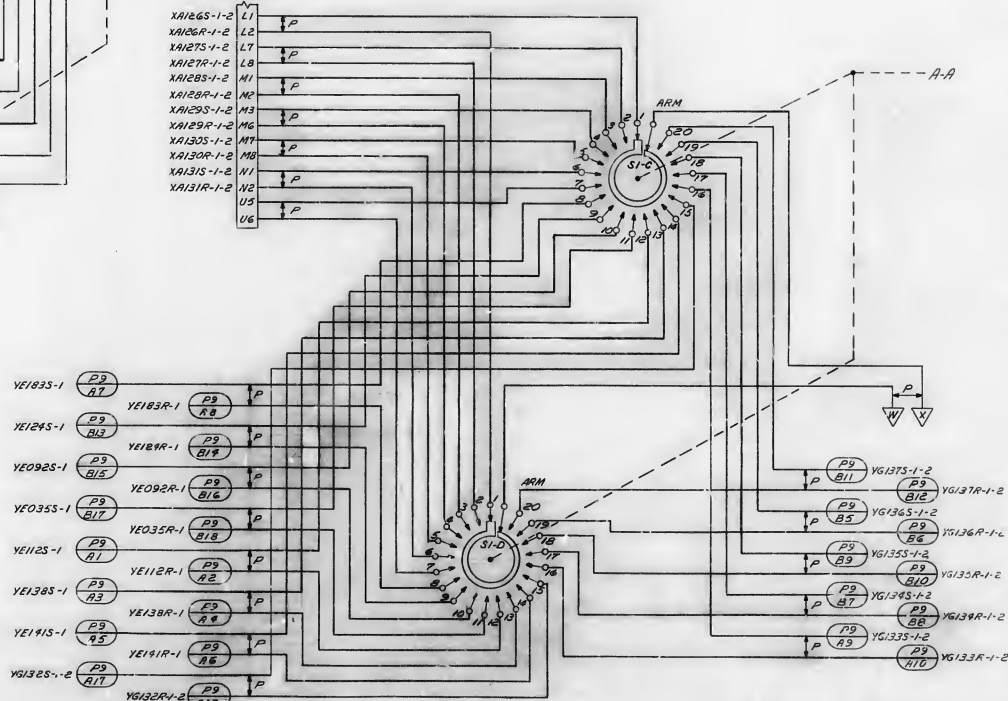
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2	OFF
3	S+NEG
4	T+POS

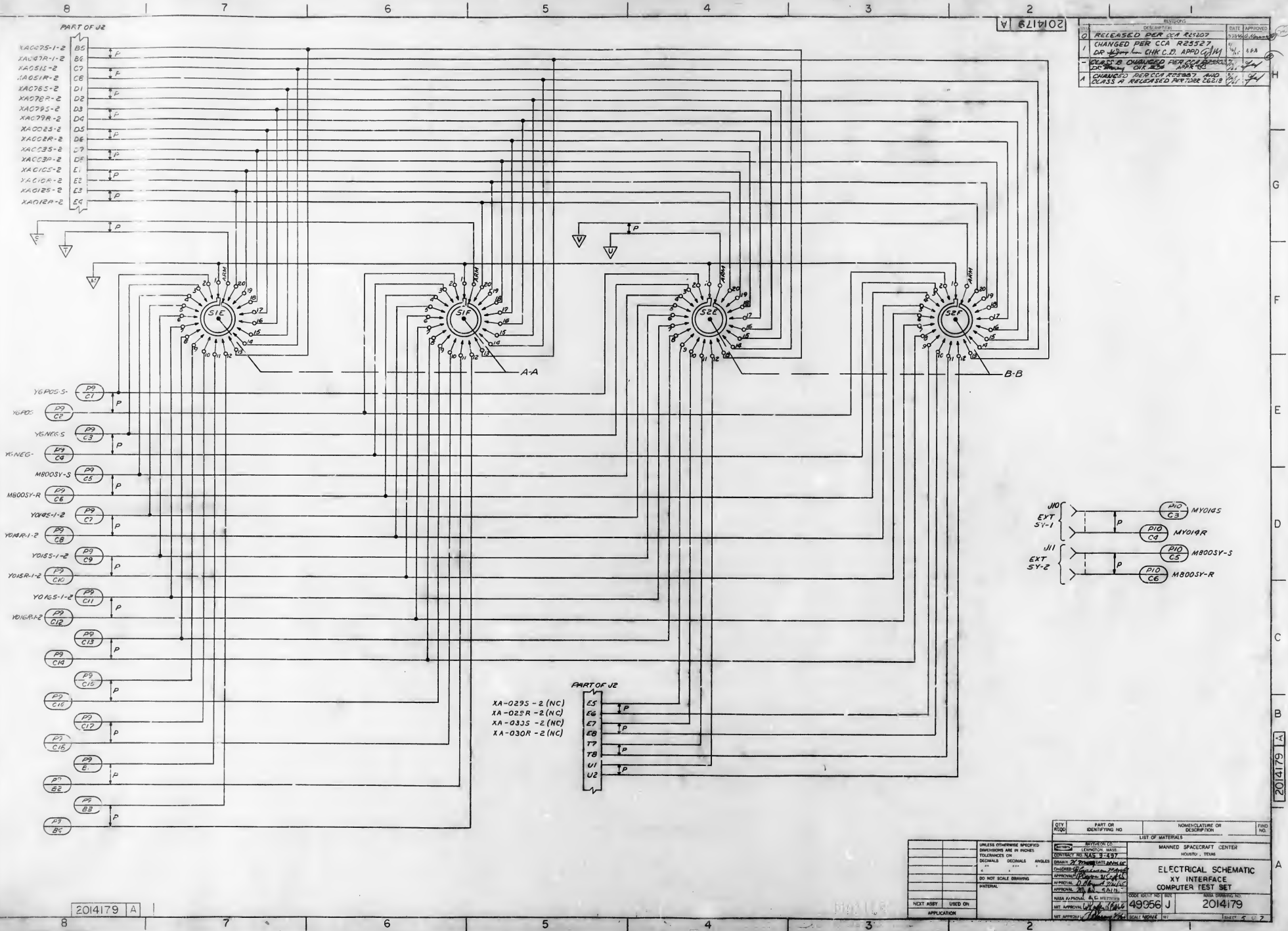
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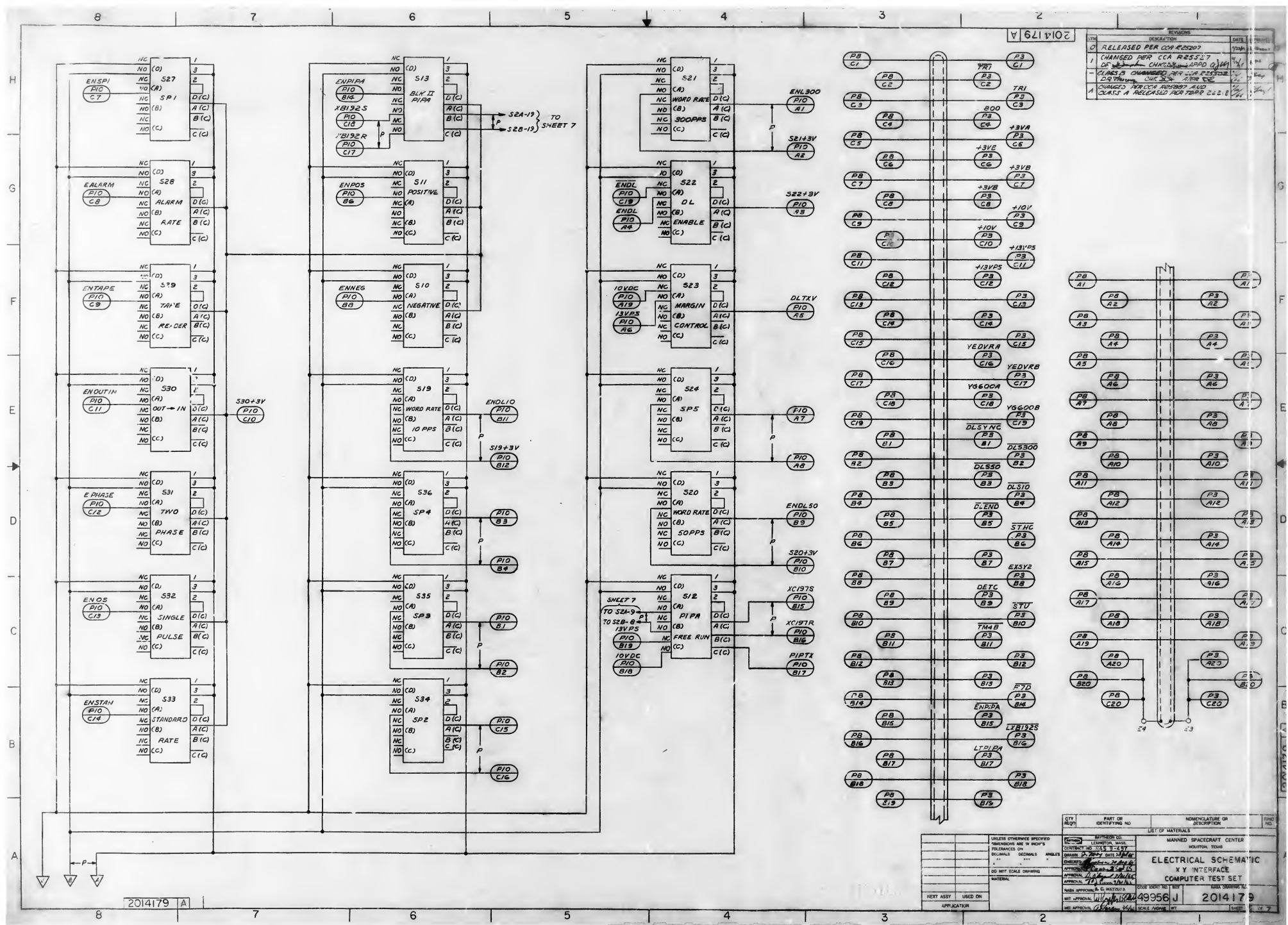
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2	V1
3	NORM
4	V2
5	V3

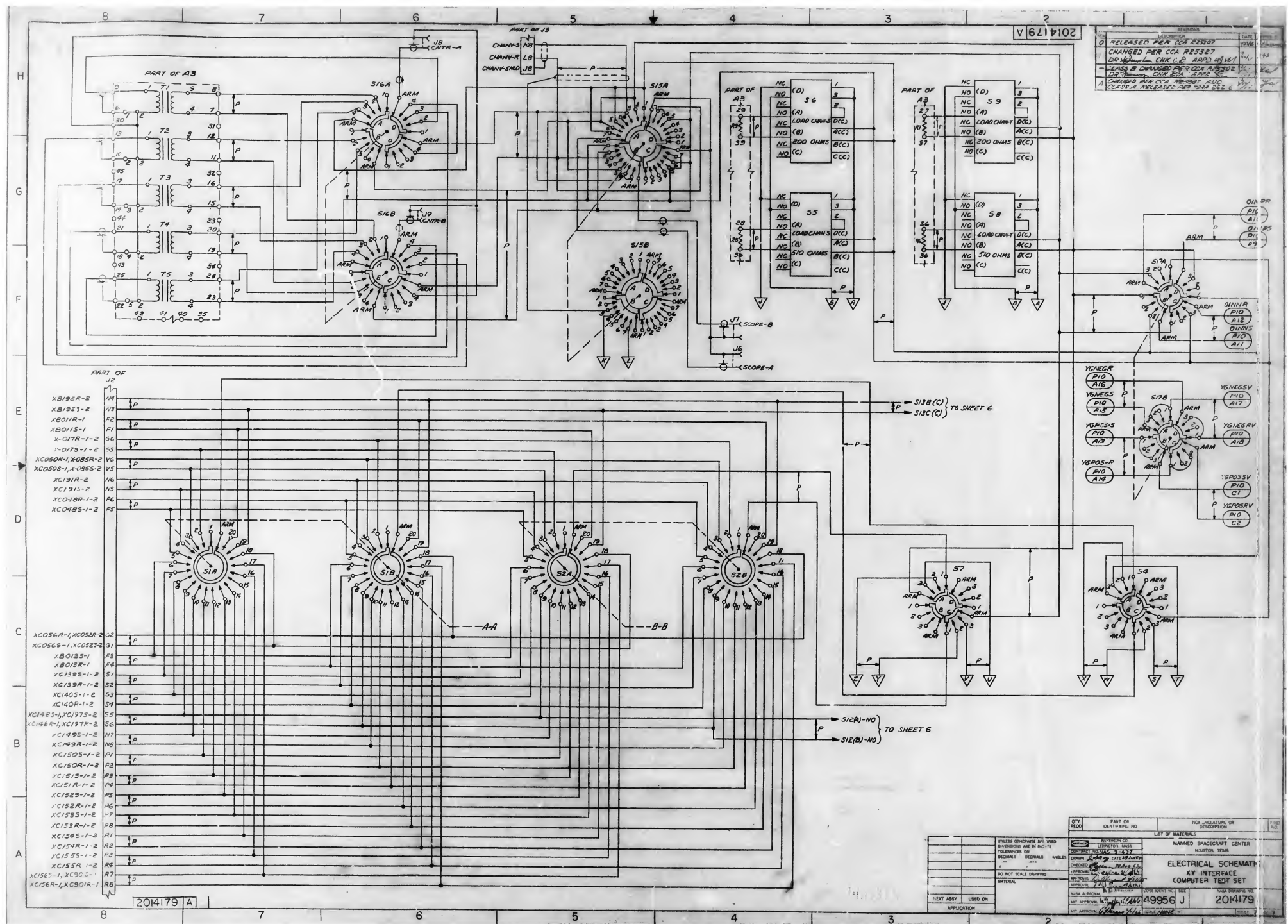
DATE	APPROVAL	REVISION
2014/79	A	1
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2014/79	A	3
2014/79	A	4
2014/79	A	5
2014/79	A	6
2014/79	A	7
2014/79	A	8
2014/79	A	9
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2014/79	A	12
2014/79	A	13
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2014/79	A	15
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2014/79	A	99
2014/79	A	100

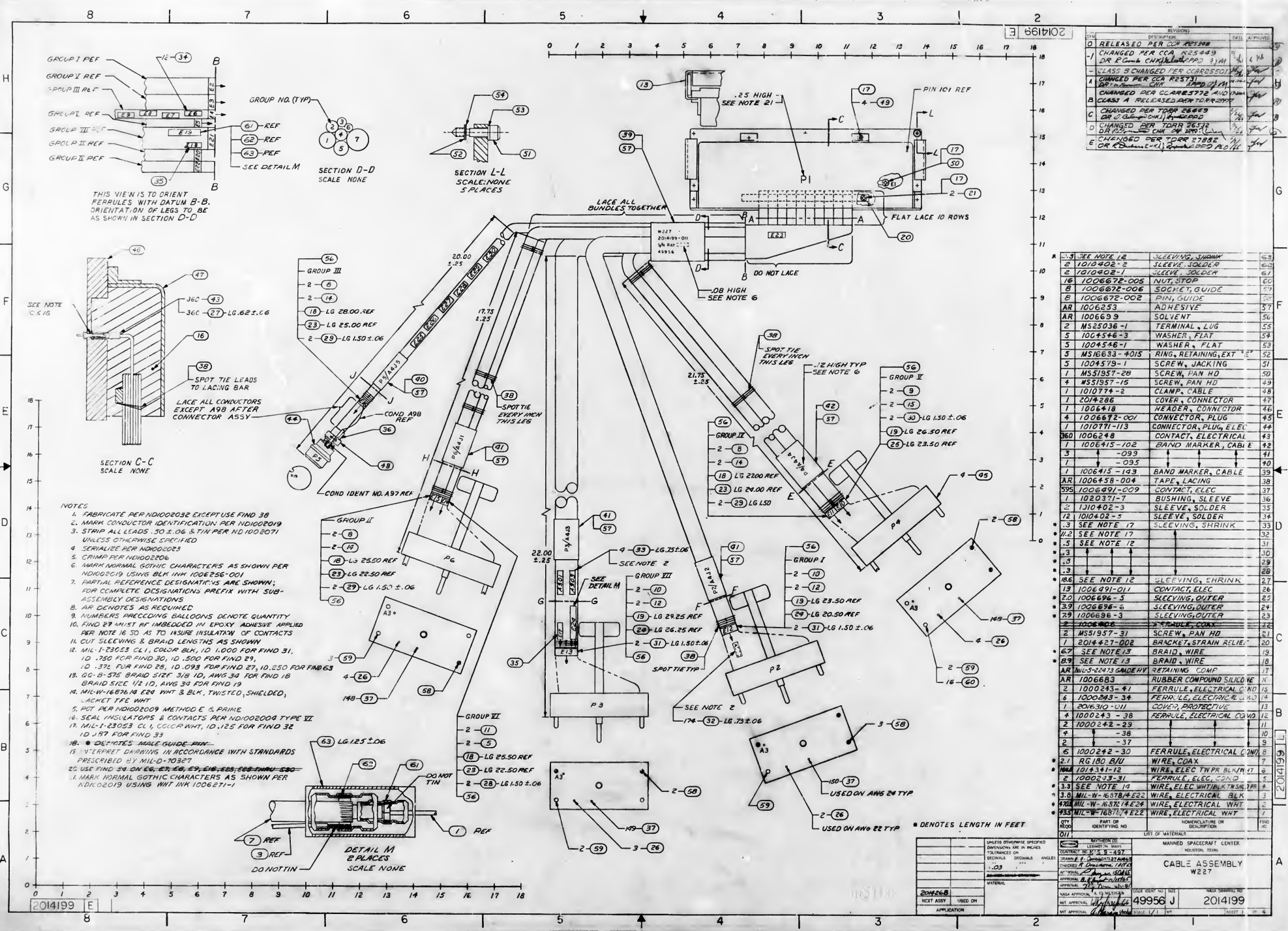
PART OF J2











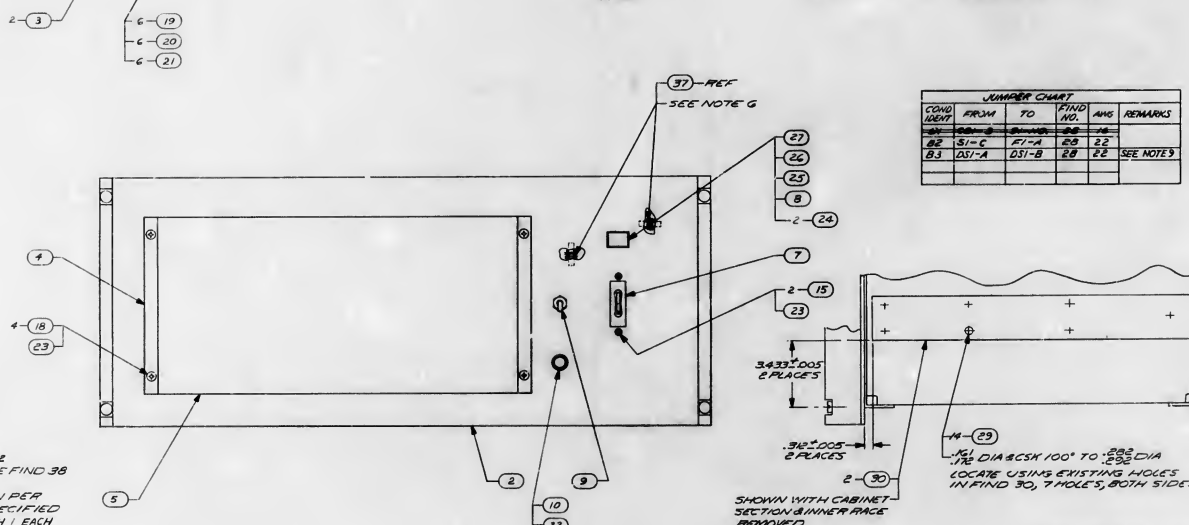
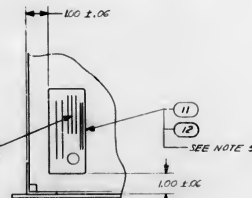
REVISIONS		DATE	APPROVED
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3	DR 27849 CHANGED PER CDR 27849		
4	CLASS 3 CHANGED PER CDR 27849		
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99	CHANGED PER CDR 27849		
100	CHANGED PER CDR 27849		

NOTES

1. FABRICATE PER NID000232 EXCEPT USE FIND 38
2. MARK CONDUCTOR IDENTIFICATION PER NID002019
3. STRIP ALL LEADS .30 ± .06 & TIN PER NID 1002071 UNLESS OTHERWISE SPECIFIED
4. SERIALIZE PER NID000203
5. CRIMP PER NID002006
6. MARK NORMAL GOTHIC CHARACTERS AS SHOWN PER NID002019 USING BLK INK 100256-001
7. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN; FOR COMPLETE DESIGNATIONS PREFIX WITH SUB-ASSEMBLY DESIGNATIONS
8. AR DENOTES AS REQUIRED
9. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
10. FIND 27 MUST BE IMBEDDED IN EPOXY ADHESIVE APPLIED PER NOTE 16 SO AS TO INSURE INSULATION OF CONTACTS
11. CUT SLEEVING & Braid LENGTHS AS SHOWN
12. MIL-1-23053 CL1, COLOR BLK, 1.000 FOR FIND 31, 1.0 .750 FOR FIND 30, 1.0 .500 FOR FIND 29, 1.0 .375 FOR FIND 28, 1.0 .093 FOR FIND 27, 1.0 .250 FOR FIND 63
13. 60-B-575 Braid Size 3/16 10, AVG 34 FOR FIND 18 Braid Size 1/8 10, AVG 34 FOR FIND 19
14. MIL-1-66716 LG 20 WHT & BLK, TWISTED, SHIELDED, LACKET TIE WHT
15. POT PER NID002009 METHOD E & PRIME
16. SEAL INSULATORS & CONTACTS PER NID002008 TYPE VI
17. MIL-1-23053 CL1, COLOR WHT, 1.125 FOR FIND 32
18. 1.125 FOR FIND 33
19. 1.06 NOTES: 1.125 GUIDE: 1.125
20. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
21. USE FIND 34 ON 66-27-16, 29-18-505, 29-18-505, 29-18-505
22. MARK NORMAL GOTHIC CHARACTERS AS SHOWN PER NID002019 USING WHT INK 100256-001



REVIEWS			
SYM	DESCRIPTION	DATE	APPROV
0	RELEASED PER COA 2679		
1	CHANGED PER COA 925337 DPA-604-4411 APFD index	7/1	108
-	CLASS B CHANGED PER COA 925553		
A	CHANGED PER COA 925337 AND CLASS A RELEASED PER DPA 35476	7/1	108
B	CHANGED PER DPA 28255 ORL per the FURLORE 1890	7/1	108



X	EO/ISSY	SCHEMATIC	APP
2	M525036-1	TERMINAL LUG	33
2	U049939	IN "EXPONENTIAL DIAGRAM"	REF
AR	100G638-009	TAPER LUG	36
1	100W570-001	WASHER, FLAT	36
1	100W453-011	WASHER, FLAT	36
1	M519573-34	CABLE ASSY GARD	35
2	M519573-88	WASHER, LOCK	35
2	M519573-810	WASHER, FLAT	37
1	100W570-001	WASHER, FLAT	36
1	100W453-011	CABLE ASSY GARD	35
2	100G660	SLIDE, CHASSIS	30
14	M0040RGADS-10	RIVET, STALL	20
0.5	W4-4876MEZ	WIRE CABLE, WHT	68
1	100G404-007	LIGHT INDICATOR - LENS	27
1	100G404-004	LIGHT INDICATOR - 52 SCREEN	26
1	100G404-002	LIGHT INDICATOR - COIL FLTR	25
1	100G647-003	LAMP	24
AR	M5182473 GA	SEALING EXHAUSTING CLAMP	23
1	M5182473 GA	SEALING EXHAUSTING CLAMP	23
1	M5182473 GA	SEALING EXHAUSTING CLAMP	23
10	M51795-80	WASHER, FLAT	20
10	M515338-80	WASHER, LOCK	20
4	M511960-67	SCREW, FLAT HD	19
4	M511967-44	SCREW, FLAT HD	19
8	M511923-45	SCREW, FLAT HD	16
2	M51959-27	SCREW, FLAT HD	15
6	M524633-006	SCREW, FLAT HD	14
1	20M4251-1	IMPULSION CO-235Y, AI	13
AR	M41506 TYPE II	CEMENT	12
1	M414850-37	WASHER, FLAT	11
1	M526572-1	FUSEHOLDER	10
1	M515059-32	SWITCH, TOGGLE	9
1	100G404-001	LIGHT INDICATOR - WSK	8
1	100G474-1-001	CIRCUIT BREAKER	7
1	100W472-001	WASHER, FLAT	6
1	100G433	POWER SUPPLY	5
2	20M4211	STRAP	4
2	10M4215-6	HANDLE ASSY	4
1	20M410	STRAP	3
2	10M4206	CHASSIS	2

1. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
2. MARK NORMAL GOTHIC CHARACTERS AS SHOWN PER FD002020 USING WHITE INFD00271-1 CENTRALIZED LOCATED ON FINE NO. 5
3. SPECIALIZE PER FD00202023
4. INVERTICE AS REQUIRED
5. 2ND FINE NO. 11 FINE NO. 11 USING FINE NO. 12
6. REFORMAT PER INFD002038 EXCEPT USE FINE NO. 7 SOLDER PER INFD002027
7. STRIP ALL LEADS 150-106 AND TIN PER FINE NO. 12
8. STRIP BOTH ENDS 195-06 DO NOT ATTACH 1 EACH END FINE NO. 1139
9. STRIP PER INFD0020206
10. REPAIR EXTENSIVE JUMPS FROM TERMINAL BOARD
11. CLAMP PER FD002020

SHOWN WITH CABINET
SECTION & INNER RACE
REMOVED

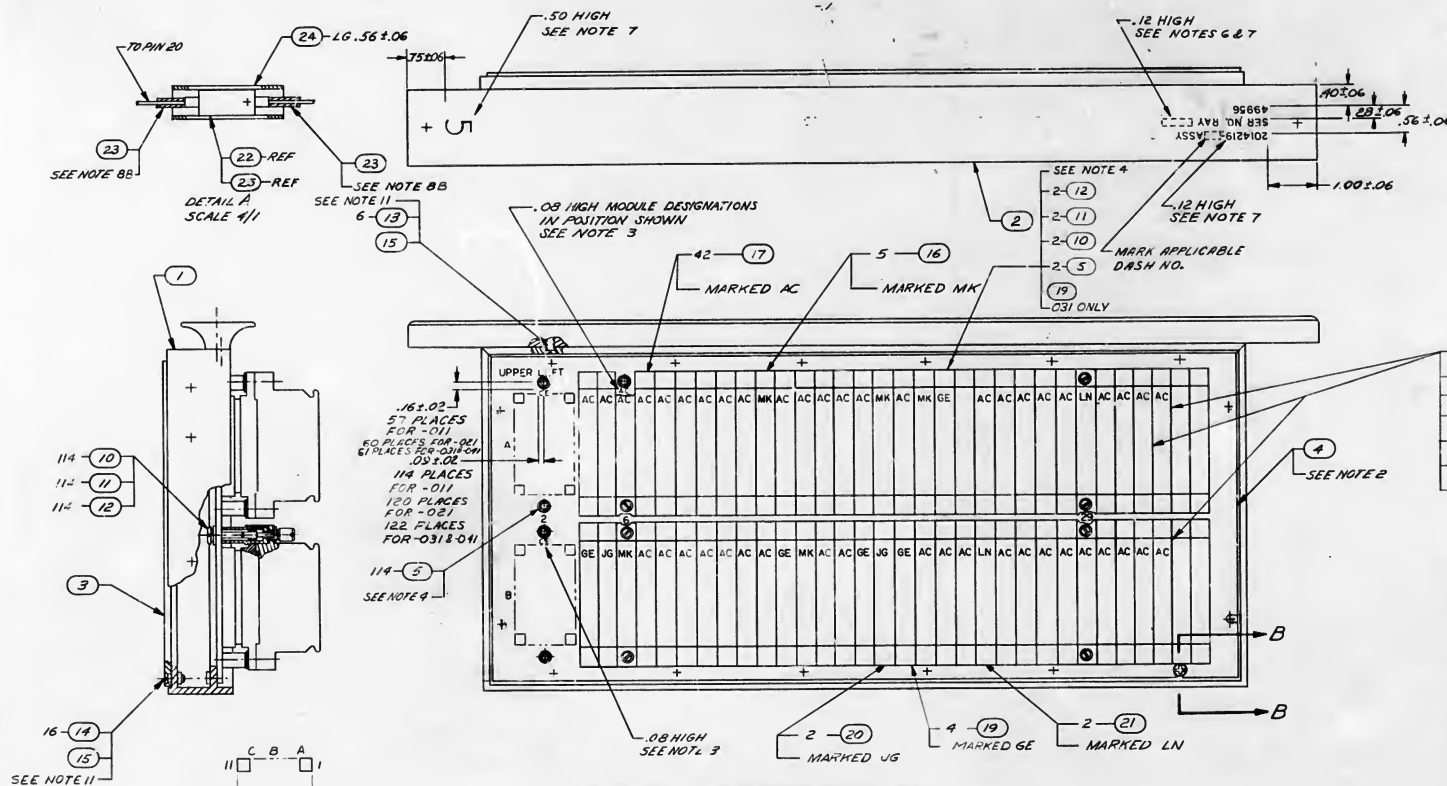
* DENOTES LENGTH IN FEET

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMALS DECIMALS INCHES		PART NO. <u>104-1037</u> CONTRACT NO. <u>104-1037</u> DRAWING NO. <u>104-1037</u> QUANTITY <u>20</u> APPROVAL <u>[Signature]</u> DATE <u>10/10/74</u>		MAXIMUS SPACECRAFT CENTER HOUSTON, TEXAS	
DO NOT SCALE DRAWING		POWER SUPPLY ASSY 115 VAC 400 CYCLES OPERATION CONSOLE			
1041024 NEXT SIZE 1/2" ON 1 APPLICATION		ORDER PART NO. <u>104-1037</u> QUANTITY <u>20</u> PART APPROVAL <u>[Signature]</u> DATE <u>10/10/74</u>		ORDER PART NO. <u>104-1037</u> QUANTITY <u>20</u> PART APPROVAL <u>[Signature]</u> DATE <u>10/10/74</u>	

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70007

ISOMETRIC DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-20007

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

[illegible]

SECTION B-B
16 PLACES
SCALE 2/1

X	X	-	-	2016458	LOGIC DIAGRAM	REF
X	X	-	-	2016457	WIREWRAP MACH CARD	REF
X	X	-	-	2016433	LOGIC DIAGRAM	REF
X	X	-	-	2016434	WIREWRAP MACH CARD	REF
X	X	-	-	2016383	LOGIC DIAGRAM	REF
X	X	-	-	2016371	WIREWRAP MACH CARD	REF
X	X	-	-	2016107	LOGIC DIAGRAM	REF
X	X	-	-	2014089	WIREWRAP MACH. CARD	REF

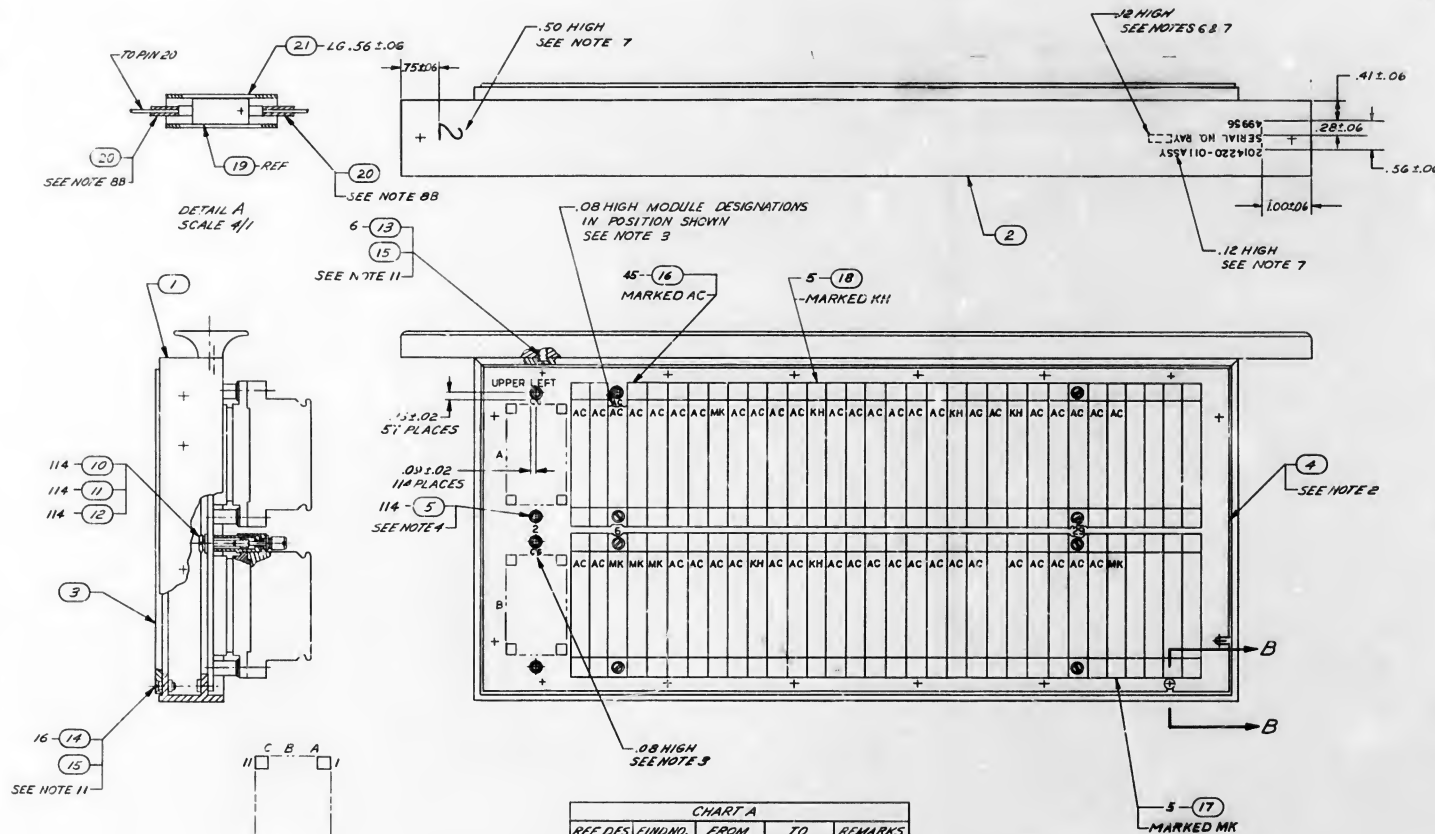
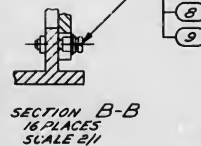
1	1	1	MSIS 825-5	CAPACITOR, 750 μ mf 50VDC	25
2	5	23	25	SLEEVE	1
AR	AR	AR	100676-197	SLEEVE, INSULATION	23
22	22	22	CS134FO10K	CAPACITOR, 1uf 35V	22
2	2	2	204H000-0/1	MODULE, BUFFERED FLIP FLOP	21
2	2	2	1014065-3	MODULE, RESISTOR	20
5	5	4	104M230	MODULE, INTERFACE RECEIVER	19
AR	AR	AR	1006945-1	WIRE, ELECTRICAL	18
45	45	45	1014034	MODULE, NOR	17
5	5	5	1014096	MODULE, DRIVER	16
AR	AR	AR	NIL-5-22473 GR-WY	SEALING & RETAINING COMPOUND	15
16	16	16	MS5195-8	SCREW, FLAT HD	14
6	6	6	MS5189-27	SCREW, FLAT HD	13
122	122	120	MS35338-79	WASHER, LOCK	12
122	122	120	1006997	WASHER, FLAT	11
122	122	120	MS31957-29	SCREW, PAN HD	10
16	16	16	10068396	SCREW, PAN HD	9
16	16	16	MS5195-879	WASHER, FLAT	8
16	16	16	MS51795-803	WASHER, LOCK	7
16	16	16	MS51957-17	SCREW, PAN HD	6
122	122	120	1014212	STAND-OFF, PROGRAM	5
1	1	1	1006495-001	PLATE ASSY	4
1	1	1	1017026	COVER, CONN PLATE	3
1	1	1	1014007	SUPPORT, FRAME	2
1	1	1	1010104-2	FRAME	1
QTY	QTY	QTY	PART OR	QTY	QTY
REQD	REQD	REQD	IDENTIFYING NO.	REQD	REQD
				1-UNLESS NOTED OR EXPLANATION	
				FIND NO.	
LIST OF MATERIALS					

* DENOTES LENGTH IN FEET

[illegible]

INTEREST DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70673

REVIEWS			
SYM	DESCRIPTION	DATE	APPROVED
0	RELEASED PER CCA 25059	11/1/86	John E. Hagan
1	CHANGED PER CCA R25485 DEPT Bure CHANGED PER APPD R 204	11/1/86	John E. Hagan
-	CLASS B CHANGED PER CCA R25502	11/1/86	John E. Hagan
4	CHANGED PER CCA R25621 DR of Computer CHANGED PER APPD R 20	11/1/86	John E. Hagan
5	CHANGED PER CCA R25711 CLASS A RELEASED PER TORR 25972	11/1/86	John E. Hagan

[illegible]

SECTION B-B
16 PLACES
SCALE 2/1

- NOTES
1. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
 2. WIREWRAP FIND NO. 4 USING FIND NO.16 PER 2040232 & ND1002031
 3. MARK NORMAL GOTHIC CHARACTERS AS SHOWN PER ND1002019
USING BLACK INK 1006271-10
 4. LOCATE & INSTALL FIND NO. 5 PER KEY CODE MARKING
USING DWG NO. 1014047
 5. AR DENOTES AS REQUIRED
 6. SERIALIZE PER ND1002023
 7. MARK NORMAL GOTHIC CHARACTERS AS SHOWN PER ND1002019
USING WHITE INK 1006271-10
 8. AFTER MACHINE WIRE WRAPPING PLATE, INSTALL FIND NO.13
PER CHART A & DETAIL A
 9. A. SOLDER PER ND1002021
 - 9B. LENGTH OF SLEEVING ON COMPONENT LEADS TO BE
DETERMINED BY PIN LOCATION AT ASSY
 9. MIL-L-631 TYPE F FORM U₄ GRADE 4 CLASS 1 CATEGORY 1
COLOR BLUE AVG SIZE NO. 24 FOR FIND NO. 20
 10. MIL-L-631 TYPE F FORM U₄ GRADE 4 CLASS 1 CATEGORY I
COLOR CLEAR AVG SIZE NO. 8 FOR FIND NO. 21
 11. ASSEMBLE FIND NO. 13 & FIND NO. 14 USING FIND NO. 15

2014067	LOGIC FLOW DIAGRAM	RE
2014092	WIREWRAP MACH. CARD	RE
AR 1006945-1	WIRE, ELECTRICAL	2
6 SEE NOTE 10	SLEEVING	2
AR 1006776-197	SLEEVING, INSULATION	2
11 CS184F01OK	CAPACITOR 1uF 35V	15
5 104079	MODULE, GATED FLIP-FLOP	18
5 104096	MODULE, DRIVER	17
45 1014084	MODULE, NOR	17
AR MIL-S-28473 GR. IV	SEALING & RETAINING COMPOUND	7
16 MS51859-15	SCREW, FLAT HD	4
6 MS51859-25	SCREW, FLAT HD	4
114 MS53330-79	WASHER, LOCK	14
114 1006997	WASHER, FLAT	14
114 MS51957-29	SCREW, PAN HD	14
16 1006986	WASHER, SHOULDERED, NYLON	9
16 MS53330-79	WASHER, LOCK	7
16 MS51959-803	WASHER, FLAT	2
16 MS51957-17	SCREW, PAN HD	2
114 1014212	STAND-OFF, PROGRAM	4
1 1006435-001	PLATE ASSY	4
1 1014026	COVER, CONN PLATE	3
1 1014007	SUPPORT, FRAME	2
1 1014014-2	FRAME	1
TTY REQ	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
		FIN NO.

* DENOTES LENGTH IN FEET

[illegible]

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

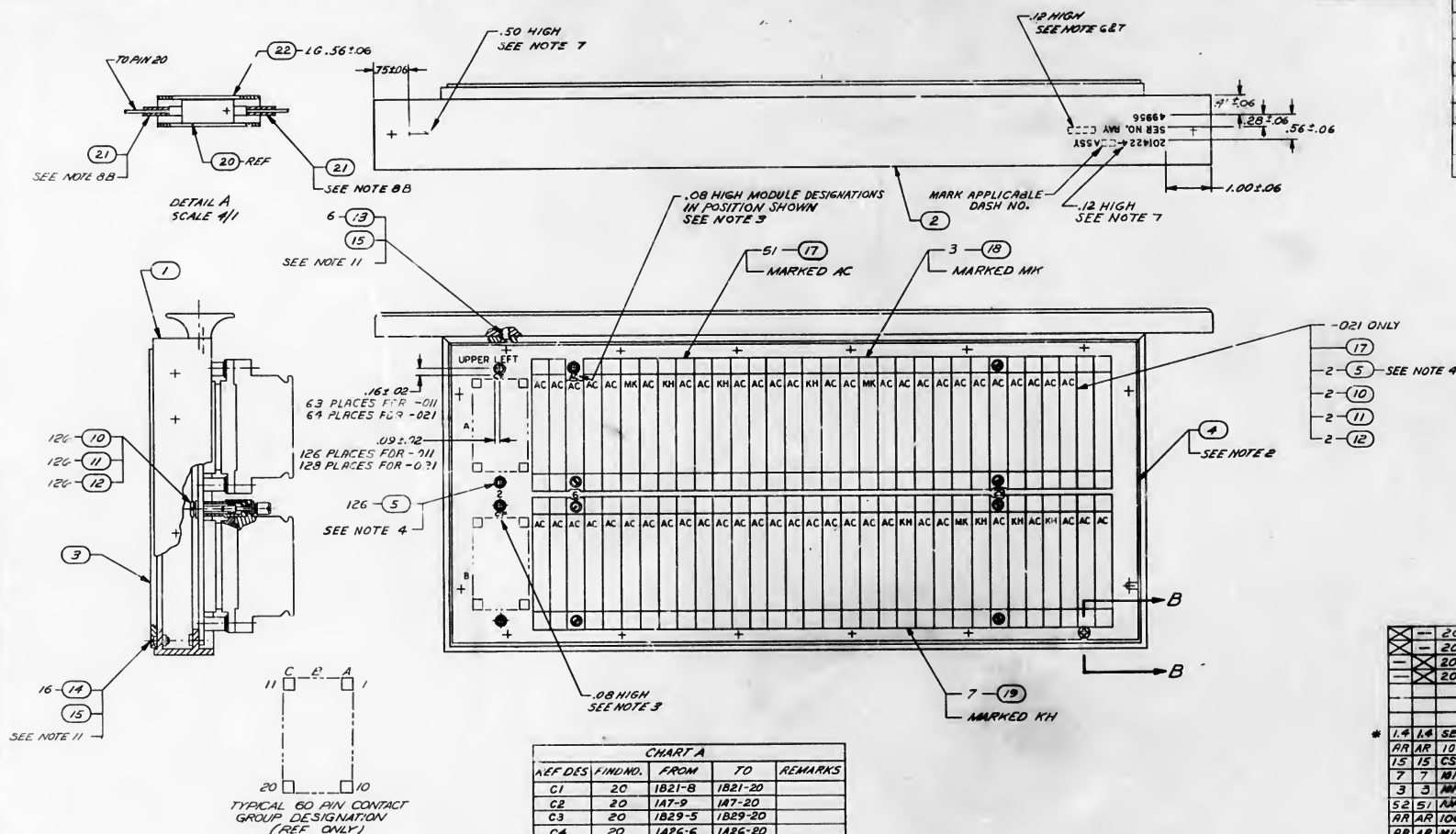


CHART A				
REF DES	FIND NO.	FROM	TO	REMARKS
C1	20	1B21-8	1B21-20	
C2	20	1A7-9	1A7-20	
C3	20	1B29-5	1B29-20	
C4	20	1A2C-6	1A2C-20	
C5	20	1A3-19	1A2-20	
C6	20	1B1-19	1B2-20	
C7	20	1A2B-19	1A29-20	
C8	20	1B2C-8	1B2B-20	
C9	20	1B1-15	1B1-20	
C10	20	1B25-15	1B25-20	
C11	20	1A33-17	1A33-20	
C12	20	1A17-6	1A17-20	
C13	20	1A8-6	1A9-20	
C14	20	1A2-1	1A3-20	
C15	20	1B2C-6	1B2C-20	

NOTES

1. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
2. WIRE WRAP NO. 10 USING FIND NO. 16 PER 2014031 OR 2016373 & ND100203
3. MARK NORMAL GOTHIC CHARACTERS AS SHOWN PER ND100209 USING BLACK INK ND06271-10
4. LOCATE & INSTALL FIND NO. 5 PER KEY CODE MARKING USING DWG NO. 101047
5. AR DENOTES AS REQUIRED
6. SERIALIZE PER ND100203
7. MARK NORMAL GOTHIC CHARACTERS AS SHOWN PER ND100209 USING WHITE INK ND06271-1
8. AFTER MACHINE WIRE WRAPPING PLATE, INSTALL FIND NO. 20 PER CHART A & DETAIL A
- 8A. SOLDER PER ND100207I
- 8B. LENGTH OF SLEEVE ON COMPONENT LEADS TO BE DETERMINED BY PIN LOCATION AT ASSY
- ~~9. MIL I-631 TYPE F FORM U, GRADE 2, CLASS I CATEGORY I~~
~~COLOR BLUE AWG SIZE NO. 24 PER FIND NO. 21~~
10. MIL I-631 TYPE F FORM U, GRADE 2, CLASS I CATEGORY I
COLOR CLEAR AWG SIZE NO. 8 FOR FIND NO. 22
11. ASSEMBLE FIND NO. 14 & FIND NO. 13 USING FIND NO. 15

SECTION B-B
16 PLACES
SCALE 2/1

* DENOTES LENGTH IN FEET

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES OF FRACTIONS		1/2" 3/4" 1" 1 1/2" 2" 3" 4" 6" 8" 10" 12" 14" 16" 18" 20" 24" 30" 36" 48" 60" 72" 96" 120" 144" 168" 192" 216" 240" 288" 324" 360" 432" 480" 576" 648" 720" 864" 960" 1080" 1296" 1440" 1728" 1920" 2160" 2592" 2880" 3240" 3600" 4320" 4800" 5760" 6480" 7200" 8640" 9600" 10800" 12960" 14400" 17280" 19200" 21600" 25920" 28800" 32400" 36000" 43200" 48000" 57600" 64800" 72000" 86400" 96000" 108000" 129600" 144000" 172800" 192000" 216000" 259200" 288000" 324000" 360000" 432000" 480000" 576000" 648000" 720000" 864000" 960000" 1080000" 1296000" 1440000" 1728000" 1920000" 2160000" 2592000" 2880000" 3240000" 3600000" 4320000" 4800000" 5760000" 6480000" 7200000" 8640000" 9600000" 10800000" 12960000" 14400000" 17280000" 19200000" 21600000" 25920000" 28800000" 32400000" 36000000" 43200000" 48000000" 57600000" 64800000" 72000000" 86400000" 96000000" 108000000" 129600000" 144000000" 172800000" 192000000" 216000000" 259200000" 288000000" 324000000" 360000000" 432000000" 480000000" 576000000" 648000000" 720000000" 864000000" 960000000" 1080000000" 1296000000" 1440000000" 1728000000" 1920000000" 2160000000" 2592000000" 2880000000" 3240000000" 3600000000" 4320000000" 4800000000" 5760000000" 6480000000" 7200000000" 8640000000" 9600000000" 10800000000" 12960000000" 14400000000" 17280000000" 19200000000" 21600000000" 25920000000" 28800000000" 32400000000" 36000000000" 43200000000" 48000000000" 57600000000" 64800000000" 72000000000" 86400000000" 96000000000" 108000000000" 129600000000" 144000000000" 172800000000" 192000000000" 216000000000" 259200000000" 288000000000" 324000000000" 360000000000" 432000000000" 480000000000" 576000000000" 648000000000" 720000000000" 864000000000" 960000000000" 1080000000000" 1296000000000" 1440000000000" 1728000000000" 1920000000000" 2160000000000" 2592000000000" 2880000000000" 3240000000000" 3600000000000" 4320000000000" 4800000000000" 5760000000000" 6480000000000" 7200000000000" 8640000000000" 9600000000000" 10800000000000" 12960000000000" 14400000000000" 17280000000000" 19200000000000" 21600000000000" 25920000000000" 28800000000000" 32400000000000" 36000000000000" 43200000000000" 48000000000000" 57600000000000" 64800000000000" 72000000000000" 86400000000000" 96000000000000" 108000000000000" 129600000000000" 144000000000000" 172800000000000" 192000000000000" 216000000000000" 259200000000000" 288000000000000" 324000000000000" 360000000000000" 432000000000000" 480000000000000" 576000000000000" 648000000000000" 720000000000000" 864000000000000" 960000000000000" 1080000000000000" 1296000000000000" 1440000000000000" 1728000000000000" 1920000000000000" 2160000000000000" 2592000000000000" 2880000000000000" 3240000000000000" 3600000000000000" 4320000000000000" 4800000000000000" 5760000000000000" 6480000000000000" 7200000000000000" 8640000000000000" 9600000000000000" 10800000000000000" 12960000000000000" 14400000000000000" 17280000000000000" 19200000000000000" 21600000000000000" 25920000000000000" 28800000000000000" 32400000000000000" 36000000000000000" 43200000000000000" 48000000000000000" 57600000000000000" 64800000000000000" 72000000000000000" 86400000000000000" 96000000000000000" 108000000000000000" 129600000000000000" 144000000000000000" 172800000000000000" 192000000000000000" 216000000000000000" 259200000000000000" 288000000000000000" 324000000000000000" 360000000000000000" 432000000000000000" 480000000000000000" 576000000000000000" 648000000000000000" 720000000000000000" 864000000000000000" 960000000000000000" 1080000000000000000" 1296000000000000000" 1440000000000000000" 1728000000000000000" 1920000000000000000" 2160000000000000000" 2592000000000000000" 2880000000000000000" 3240000000000000000" 3600000000000000000" 4320000000000000000" 4800000000000000000" 5760000000000000000" 6480000000000000000" 7200000000000000000" 8640000000000000000" 9600000000000000000" 10800000000000000000" 12960000000000000000" 14400000000000000000" 17280000000000000000" 19200000000000000000" 21600000000000000000" 25920000000000000000" 28800000000000000000" 32400000000000000000" 3600000000	
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[illegible]

X	--	2016370	LOGIC DIAGRAM	REF
	-	2016373	WIREWRAP MACH. CARD	REF
	X	2014068	LOGIC DIAGRAM	REF
	X	2014091	WIREWRAP MACH. CARD	REF

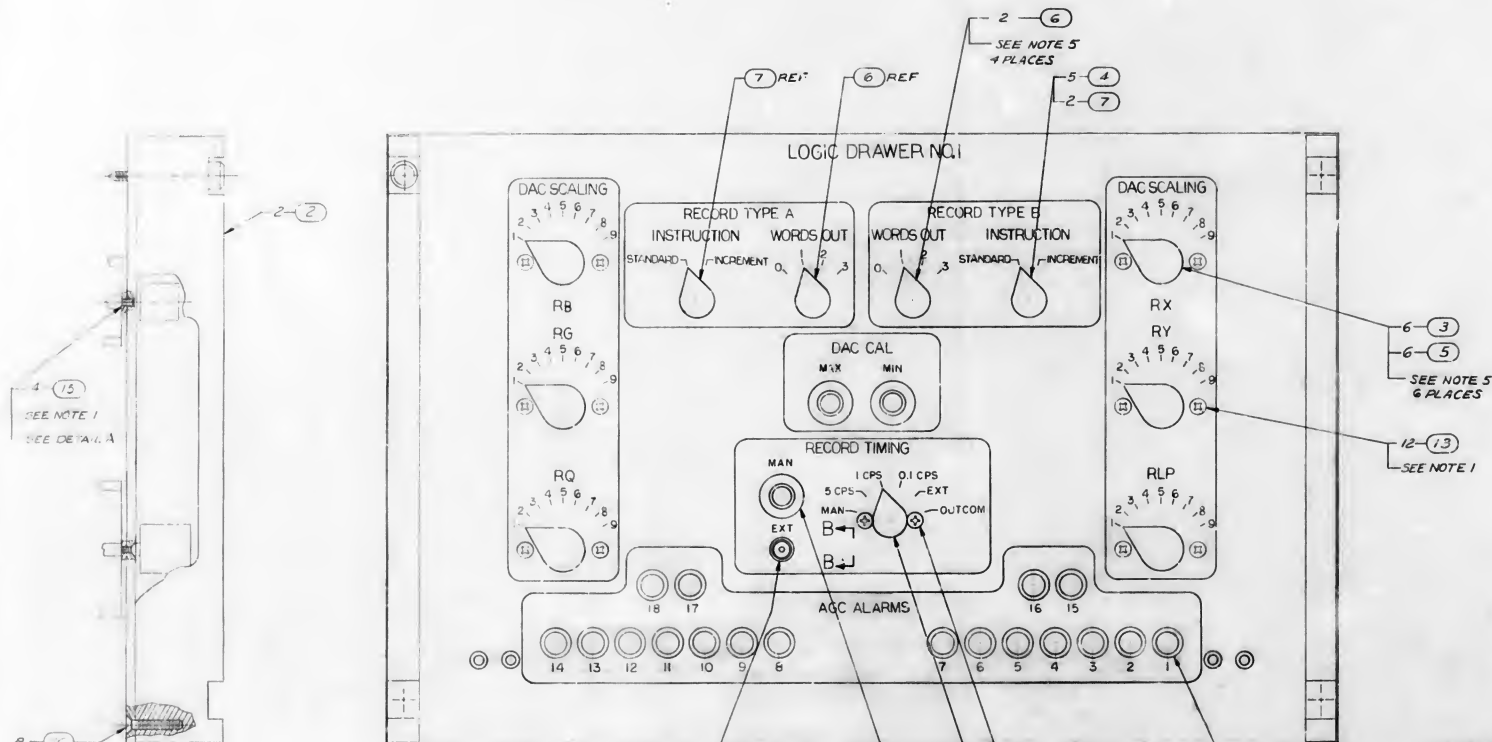
[illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC PLATE ASSY NO
LOGIC DRAWER NO. 2
COMPUTER TEST SET

49956 F 2014224

2014225	D
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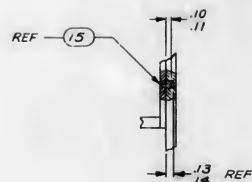
[illegible]

	204111	SCHEMATIC	REF
	204119	LEAD, ELECTRICAL	REF
1	AN260C616L	WASHER, FLAT	21
1	1006992-10	WASHER, NYLON	23
1	1020376	WASHER, INSULATING	24
AR	1006453-004	TAPE, LACING	25
18	1006401-003	LENS, CAP	26
* 1	NIGH-169704 CR2	WIRE, ELEC, MHTI	27
1	2041171	WIRE, HARNES	28
12	1006236	TERMINAL LUG	29
AR	MILS-22473, GR HV	SEALING RETAINING COMPOUND	30
5	M53593-1-4	SCREW, MACH, FLAT HD	31
4	M53102-2-2	SET SCREW	32
5	M53593-2-5	SCREW, MACH, FLAT HD	33
12	M53593-3-3	SCREW, MACH, FLAT HD	34
18	1006407-002	LAMP	35
18	1006481	LAMP, DRIVER	36
1	M535179-1094A	CONNECTOR, RECP, BNC	37
1	M525049-3C	SWITCH, PUSHBUTTON	38
1	1006891-2	SWITCH, ROTARY	39
2	1006953-3	SWITCH, ROTARY	40
2	1006953-4	SWITCH, ROTARY	41
2	1006894-2	SWITCH, ROTARY	42
5	M535528-1K20	KNOB, CONTROL, PLASTIC	43
5	M535528-2K20	KNOB, CONTROL, PLASTIC	44
5	1014215-6	HANDLE, ASSY	45
1	2014075	PANEL, FRONT	46

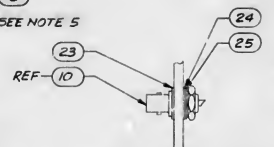
SEE NOTE 10 *

NOTES:

1. ASSEMBLE FIND NO. 13, 14, & 15 USING FIND NO. 17
2. AR DENOTES AS REQUIRED
3. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
4. FOR FABRICATION SEE IDNO02032, EXCEPT USE FIND NO. 22
5. DISCARD (HTG SCREWS SUPPLIED WITH FIND NO. 5, 6, 7 & 8
6. REMOVE EXISTING TERMINAL LUGS ON FIND NO. 9
7. & USE FIND NO. 18
7. SERIALIZE PER IDNO02023
8. MARK NORMAL GOTHIC CHARACTERS AS SHOWN
9. PER IDNO02019 USING BLACK INK 1006271-10
9. STRIP ALL EADS, 50 L.O.G & TIN PER IDNO02071
10. THIS WIRE IS USED IN CONJUNCTION WITH 2041419
11. APPLY FIND IT TO INTERNAL THREADS OF FIND 9



DETAIL A
4 PLACES



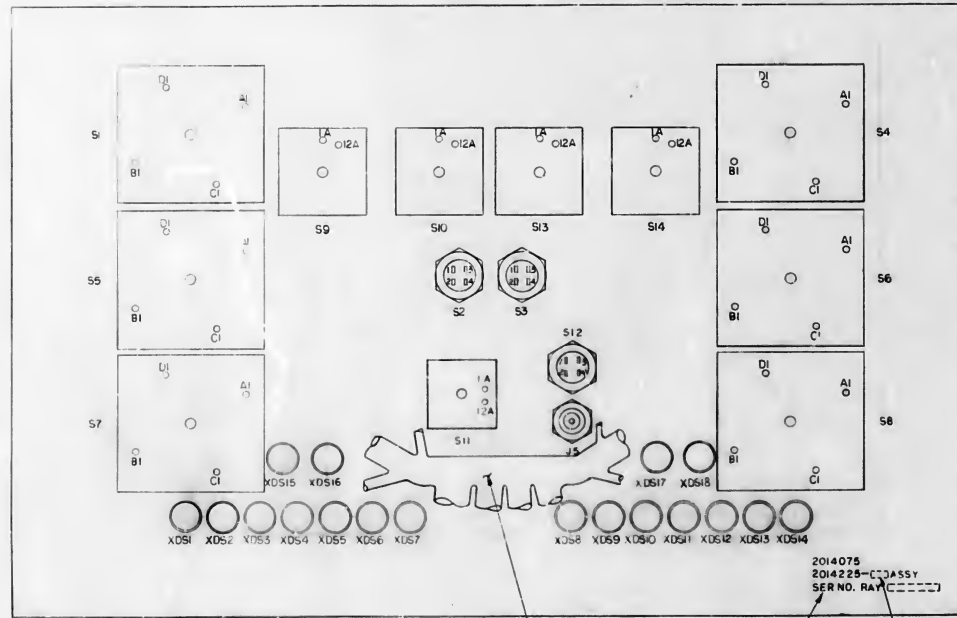
PARTIAL SECTION B-B

* DENOTES LENGTH IN FEET

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMALS DECIMALS ANGLES .1" .01" .1"	BAYVIEW CO. LYNDON, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
	CONTRACT NO. JMS-25-257			
	DRAWN BY: <u>W. J. BAYVIEW</u>	DATE: <u>10-2-57</u>		
	CHECKED BY: <u>W. J. BAYVIEW</u>			
	APPROVED BY: <u>W. J. BAYVIEW</u>			
DO NOT SCALE DRAWING		FRONT PANEL ASSEMBLY LOGIC DRAWER NO. 1 COMPUTER TEST SET		
MATERIAL		BOOK IDENT NO. <u>100</u>		TASK SET FILE NO. <u>20142-25</u>
2014236	VASA APPROVAL: <u>W. J. BAYVIEW</u>		499956	
NEXT ASBY USED ON	VASA APPROVAL: <u>W. J. BAYVIEW</u>		SCALE 1/16"	F
APPLICATION	NET APPROVAL: <u>W. J. BAYVIEW</u>		SCALE 1/16"	T BHEET 1 OF 2

2014225

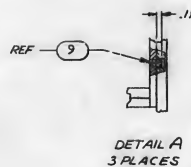
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
0	RELEASED PER CCA R25064	10/1/68	A. H. HARRIS
1	CHANGE PER CCA R25301 DR W. W. HARRIS, APPD	10/1/68	A. H. HARRIS
2	CHANGE PER CCA R25475 DR C. B. HARRIS, APPD	10/1/68	A. H. HARRIS
3	CLASS B CHANGED PER CCA R25502 DR C. B. HARRIS, APPD	10/1/68	A. H. HARRIS
4	CHANGED PER CCA R25547 DR C. B. HARRIS, APPD	10/1/68	A. H. HARRIS
5	CHANGED PER CCA R25626 DR C. B. HARRIS, APPD	10/1/68	A. H. HARRIS
6	CHANGED PER CCA R25651 AND CLASS A RELEASED PER DRR 25475	10/1/68	A. H. HARRIS
7	CHANGED PER DRR 26504 DR C. B. HARRIS, APPD	10/1/68	A. H. HARRIS



TYP REAR VIEW
XDS1 - XDS18
SCALE: NONE

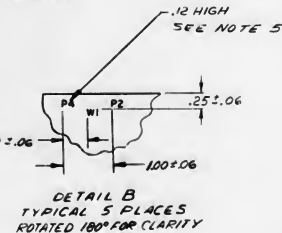
2014075
2014225-CLASSY
SER NO. RAY ()
SEE NOTE 7 MARK APPLICABLE DASH NO.
SEE NOTE 8

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMALS DECIMALS ANGLES DO NOT SCALE DRAWING MATERIAL		BAYTECH CO. LEXINGTON, MASS. CONTRACT NO. NAS 3-457 DRAWN BY: [Signature] CHECKED BY: [Signature] APPROVAL: [Signature] DATE: 6 JUL 68 NASA APPROVAL: [Signature] SET APPROVAL: [Signature] BY APPROVAL: C. [Signature]	
NEXT ASSY USED ON APPLICATION		MANNED SPACECRAFT CENTER HOUSTON, TEXAS FRONT PANEL ASSEMBLY LOGIC DRAWER NO. 1 COMPUTER TEST SET CODE IDENT NO. 49956 F 2014225 SCALE 1/1 SHEET 2 OF 2	

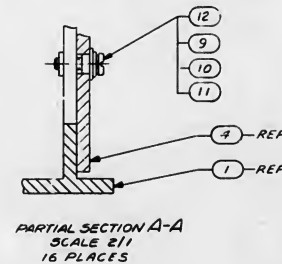
[illegible]

* DENOTES LENGTH IN FEET

INTERPRET DRAWING IN ACCORDANCE WITH STANDARD PRESCRIBED BY MIL-D-7032

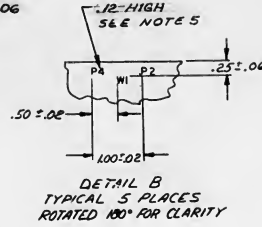


-
- A diagram of a rectangular contact group with pins numbered 1 through 60. The top row of pins is labeled C, B, and A from left to right. The bottom row of pins is labeled 20 and 10 from left to right. The left side of the rectangle is marked with a double slash // and the right side with a single slash /. The top and bottom edges are marked with dashed lines.
- TYPICAL 60 PIN CONTACT GROUP DESIGNATIONS (REF ONLY)

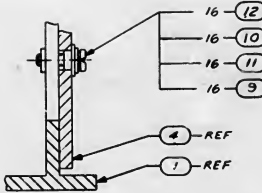


DATE: 04/03/01		BY: RAYTHEON CO.		LIST OF MATERIALS	
ITEMS SPECIFIED ARE IN INCHES OR		LEWISTON, MA 01846		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DECIMALS & ANGLES		CONTACT: 508-227-1100		INTERCONNECTION PLATE	
SCALE THIS DRAWING		AS SHOWN		ASSY PLATE NO.6	
				LOGIC DRAWER NO.1	
				COMPUTER TEST SET	
MENT		SPECIAL APPROVAL		COG. IDENT. NO.	INSTR. IDENT. NO.
		A. L. MILLER		49956 F	201428
		SMT APPROVAL		SCALE 1/1	WT
		DATE: 04/03/01		DPI	

INTERPRET DRAWINGS IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-7087



-
- A diagram showing a rectangular arrangement of 60 pins. The top row has pins labeled C, B, and A from left to right. The bottom row has pins labeled 20, 19, and 18 from left to right. The left side has pins labeled 11 and 20. The right side has pins labeled 1 and 10. The diagram is labeled "TYPICAL 60 PIN CONTACT GROUP DESIGNATIONS (REF ONLY)".



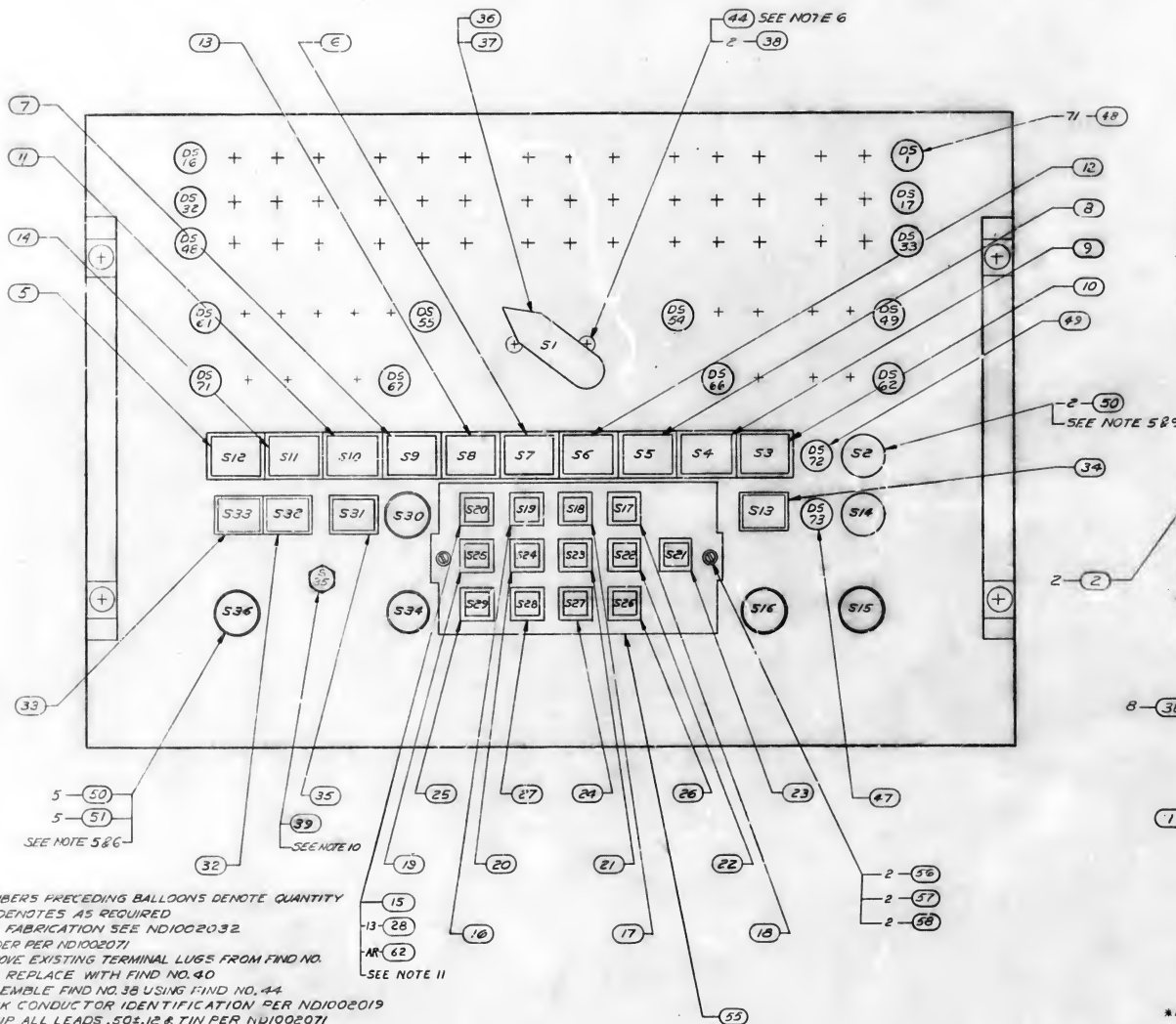
PARTIAL SECTION A-A
SCALE 2/1

X	-	2016374	WIREWRAP MACH CARD	R
X	-	2016399	LOGIC DIAGRAM	R
-	X	2014096	WIREWRAP MACH. CARD	R
-	X	2014196	LOGIC DIAGRAM	R

RR	AR	MIL-5-22473 GR, HV	COMPONENT SEALING & RETAINING	
RR	AR	10069459-1	WIRE, ELEC, INSUL, 3# AWG, SOLID	
16	16	MSS-9359-15	SCREW, FLAT HD	
4	4	MSS-9359-14	SCREW, FLAT HD	
40	40	MSS-9358-79	WASHER, FLAT	
16	16	MSS-9358-78	WASHER, FLAT	
40	40	MSS-9357-23	SCREW, PAN HD	
16	16	MSS-9357-17	SCREW, PAN HD	
16	16	MSS-9357-403	WASHER, FLAT	
16	16	MSS-9358-78	WASHER, FLAT	
4	4	MSS-9356	WASHER, SHOULDER, DYNALON	
4	4	1006986-8	WASHER, NYLON	
2	2	1014005	SCREW, SHOULDER	
2	2	1014006	BACKET, PIVOT	
40	40	1014182	STAND OFF, PROGRAM	
1	1	1006-655 002	PLATE, ASSY	
1	1	1014018	COVER, CONN. PLATE	
1	1	1014012	RETAINER, CAPTIVE SCREW	
1	1	1014014-1	FRAMES	

QTY REQD	QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION
-021	-011	LIST OF MATERIALS	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm \pm		DRAWING NO. RAYTHEON COS PROJECT NO. 00000000000000000000 TITLE 000000000000000000000000 DRAWN BY 00000000000000000000 CHECKED BY 00000000000000000000 DATE 00/00/00 REVISIONS 1. 000000000000000000000000 2. 000000000000000000000000 3. 000000000000000000000000 4. 000000000000000000000000 5. 000000000000000000000000 6. 000000000000000000000000 7. 000000000000000000000000 8. 000000000000000000000000 9. 000000000000000000000000 10. 000000000000000000000000 11. 000000000000000000000000 12. 000000000000000000000000 13. 000000000000000000000000 14. 000000000000000000000000 15. 000000000000000000000000 16. 000000000000000000000000 17. 000000000000000000000000 18. 000000000000000000000000 19. 000000000000000000000000 20. 000000000000000000000000 21. 000000000000000000000000 22. 000000000000000000000000 23. 000000000000000000000000 24. 000000000000000000000000 25. 000000000000000000000000 26. 000000000000000000000000 27. 000000000000000000000000 28. 000000000000000000000000 29. 000000000000000000000000 30. 000000000000000000000000 31. 000000000000000000000000 32. 000000000000000000000000 33. 000000000000000000000000 34. 000000000000000000000000 35. 000000000000000000000000 36. 000000000000000000000000 37. 000000000000000000000000 38. 000000000000000000000000 39. 000000000000000000000000 40. 000000000000000000000000 41. 000000000000000000000000 42. 000000000000000000000000 43. 000000000000000000000000 44. 000000000000000000000000 45. 000000000000000000000000 46. 000000000000000000000000 47. 000000000000000000000000 48. 000000000000000000000000 49. 000000000000000000000000 50. 000000000000000000000000 51. 000000000000000000000000 52. 000000000000000000000000 53. 000000000000000000000000 54. 000000000000000000000000 55. 000000000000000000000000 56. 000000000000000000000000 57. 000000000000000000000000 58. 000000000000000000000000 59. 000000000000000000000000 60. 000000000000000000000000 61. 000000000000000000000000 62. 000000000000000000000000 63. 000000000000000000000000 64. 000000000000000000000000 65. 000000000000000000000000 66. 000000000000000000000000 67. 000000000000000000000000 68. 000000000000000000000000 69. 000000000000000000000000 70. 000000000000000000000000 71. 000000000000000000000000 72. 000000000000000000000000 73. 000000000000000000000000 74. 000000000000000000000000 75. 000000000000000000000000 76. 000000000000000000000000 77. 000000000000000000000000 78. 000000000000000000000000 79. 000000000000000000000000 80. 000000000000000000000000 81. 000000000000000000000000 82. 000000000000000000000000 83. 000000000000000000000000 84. 000000000000000000000000 85. 000000000000000000000000 86. 000000000000000000000000 87. 000000000000000000000000 88. 000000000000000000000000 89. 000000000000000000000000 90. 000000000000000000000000 91. 000000000000000000000000 92. 000000000000000000000000 93. 000000000000000000000000 94. 000000000000000000000000 95. 000000000000000000000000 96. 000000000000000000000000 97. 000000000000000000000000 98. 000000000000000000000000 99. 000000000000000000000000 100. 000000000000000000000000 101. 000000000000000000000000 102. <	
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NOTES

1. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
2. AR DENOTES AS REQUIRED
3. FOR FABRICATION SEE ND1002032
4. SOLDER PER ND1002071
5. REMOVE EXISTING TERMINAL LUGS FROM FIND NO.
50 & REPLACE WITH FIND NO. 40
6. ASSEMBLE FIND NO. 38 USING FIND NO. 44
7. MARK CONDUCTOR IDENTIFICATION PER ND1002019
8. STRIP ALL LEADS. 50#12 & TIN PER ND1002071
UNLESS OTHERWISE SPECIFIED
9. APPLY FIND 44 TO INTERNAL THREADS OF FIND 50
10. REMOVE EXISTING SCREWS FROM TERMINAL LUGS
OF FIND NO. 39
11. SOLDER FIND 15 THRU FIND 27 TO FIND 28 USING FIND 62

[illegible]

FOR CONTINUATION OF LIST OF MATL SEE SHEET 2

5	1006865-1	GUARD, PUSHBUTTON	5
7	MS25089-3C	SWITCH, PUSH	5
1	1006401-003	LENS, CAP	4
71	1006401-005	LENS, CAP	4
1	1006401-001	LENS, CAP	6
73	1006481	LIGHT, INDICATOR	4
10	MS17821-1-9	STRAP, CABLE	4
AR	MIL-S-22473 GR HV	SEALING RETAINING "OMP	4
1	2014121-01	WIRING HARNESS "B"	4
1	2014120-01	WIRING HARNESS "A"	4
55.0	MIL-W-18818/4 EEC	WIRE, ELECTRICAL (WHITE)	1
28	1006236-1	TERMINAL LUG	3
1	MS25069-25	SWITCH, TOGGLE	3
10	MS1949-69	SCREW, MACH, CSK FLAT HD	3
1	1006528	KNOB, BAR	3
1	1006933-1	SWITCH, ROTARY	3
1	1006405-057	LENS, MARKED	3
1	1006405-056	LENS, MARKED	3
1	1006405-055	LENS, MARKED	3
1	1006405-054	LENS, MARKED	3
4	1006405-003	DISPLAY SCREEN	3
2	1006405-002	COLOR FILTER, WHITE	3
4	1006405-001	SWITCH, PUSH, BASIC UNIT	2
13	1006677	SWITCH, PUSH	2
1	1014474-12	PUSH BUTTON	2
1	1014474-13	PUSH BUTTON	2
1	1014474-11	PUSH BUTTON	2
1	1014474-10	PUSH BUTTON	2
1	1014474-9	PUSH BUTTON	2
1	1014474-8	PUSH BUTTON	2
1	1014474-7	PUSH BUTTON	2
1	1014474-6	PUSH BUTTON	2
1	1014474-5	PUSH BUTTON	2
1	1014474-4	PUSH BUTTON	2
1	1014474-3	PUSH BUTTON	2
1	1014474-2	PUSH BUTTON	2
1	1014474-1	PUSH BUTTON	2
1	1006471-010	LENS, MARKED	1
1	1006471-015		1
1	1006471-012		1
1	1006471-011		1
1	1006471-009		1
1	1006471-008		1
1	1006471-007		1
1	1006471-006		1
1	1006471-005		1
1	1006471-004	LENS, MARKED	1
40	1006471-003	LAMP B30T, Amber	1
10	1006471-001	SWITCH, PUSH, BASIC UNIT	1
2	1014292	HANDLE ASSY	1
1	2014230	PANEL, FRONT	1

* INDICATES LENGTH IN FEET

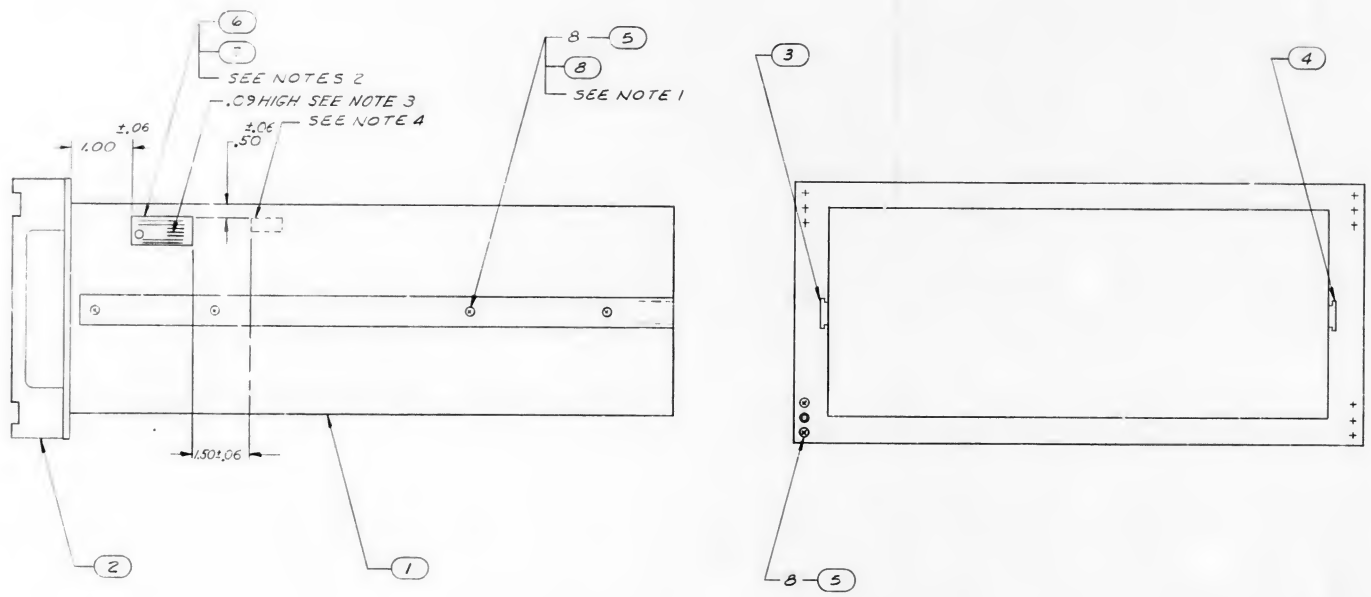
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES OF DECIMALS DECIMALS ANGLES ° ' " ° ' " ° ' "	REVISED BY	BY	DATE	BY	DATE
	LEWISTON, MASS.				
	CONTRACT NO. WAS-77-57				
	ORDINANCE NO. DATE DRAWING CHANGED BY				
APPROVAL BY DATE	APPROVAL BY DATE	APPROVAL BY DATE	APPROVAL BY DATE	APPROVAL BY DATE	APPROVAL BY DATE
DO NOT SCALE DRAWING MATERIAL	COOR IDENT NO. BOX 449956 1 NADA DRAWING NO. 2014231				
NEXT ASY USED ON APPLICATION	SHEET # OF				

2014231	D
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[illegible]

2014232

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
0	RELEASED PER DCA 85002	7/9/85	G. [Signature]
-	CLASS A RELEASED PER TDRR 25472		



NOTES

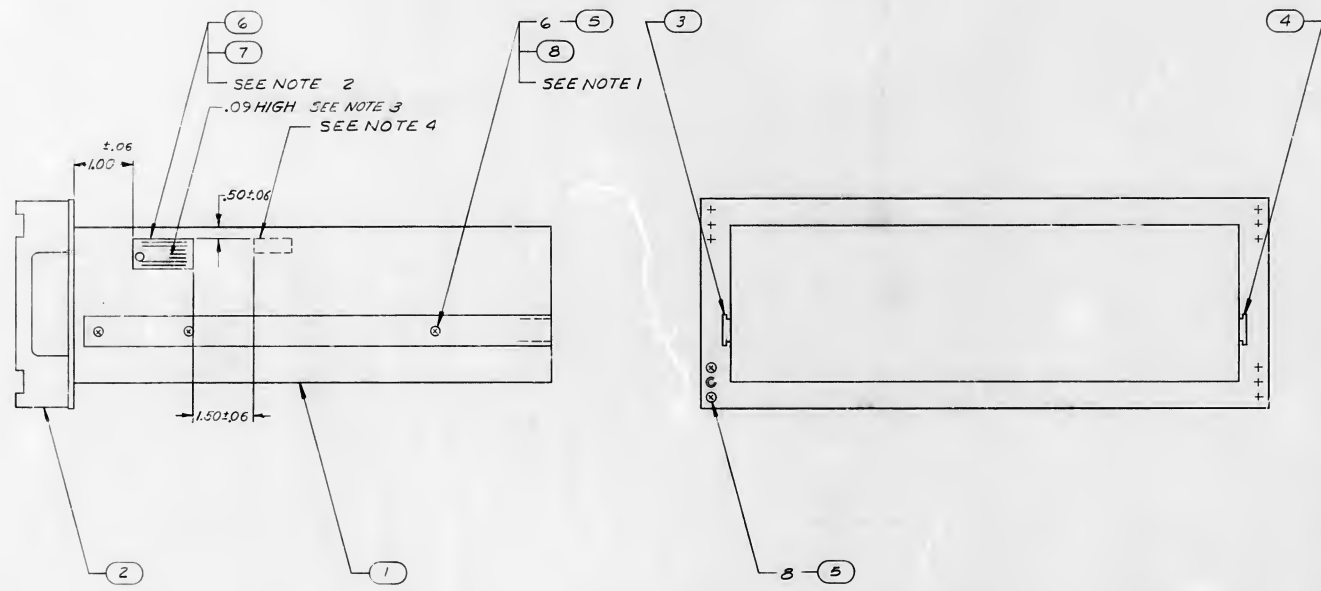
1. ASSEMBLE FIND NO. 5 USING FIND NO. 8
2. ASSEMBLE FIND NO. 2 USING FIND NO. 7
3. SERIALIZE PER ND1002023
4. MARK APPROX WEIGHT IN LBS .25 HIGH NORMAL GOTHIC CHARACTERS PER ND1002019 USING BLACK INK 1006271-10 IN POSITION SHOWN

AR	MIL-S-22473, GR. HV	SEALING & RETAINING COMPOUND	8
AR	MIL-A-5092 TYPE II	CEMENT	7
1	1004260-224	PLATE, IDENT	6
16	MSS1959-44	SCREW, FLAT HD	5
1	1006930-6	SLIDE, LH CHASSIS SECTION	4
1	1006930-5	SLIDE, RH CHASSIS SECTION	3
2	1014215-4	HANDLE ASSY	2
1	1006937	OSCILLOSCOPE	1
QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO.
-011			

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMALS DECIMALS ANGLES " " " " " "		RAYTHEON CO. LESTINGTON, MASS. CONTRACT NO. NAS 9-497		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DO NOT SCALE DRAWING		DRAWN R. [Signature] DATE 5/16/65		OSCILLOSCOPE ASSY COMPUTER TEST SET	
MATERIAL		CHECKED R. [Signature] DATE 5/16/65		APPROVAL [Signature] DATE 5/16/65	
2014042		APPROVAL [Signature] DATE 5/16/65		APPROVAL [Signature] DATE 5/16/65	
NEXT ASSY USED ON		NASA APPROVAL A. C. METZGER		CODE IDENT NO. SIZE	
APPLICATION		MIT APPROVAL [Signature] DATE 5/16/65		49956 D 2014232	
		MIT APPROVAL C. [Signature] DATE 5/16/65		SCALE 1/2" WT	
				SHEET 1 OF 1	

2014234 A

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
0	RELEASED PER CDA 25092	7/9/65	G. H. H. [initials]
-	CLASS A RELEASED PER TDRA 75472		
A	CHANGED PER TDRA 26242 DR. [illegible] CHKD. [illegible] APPD. [illegible]	7/11/66	[initials]

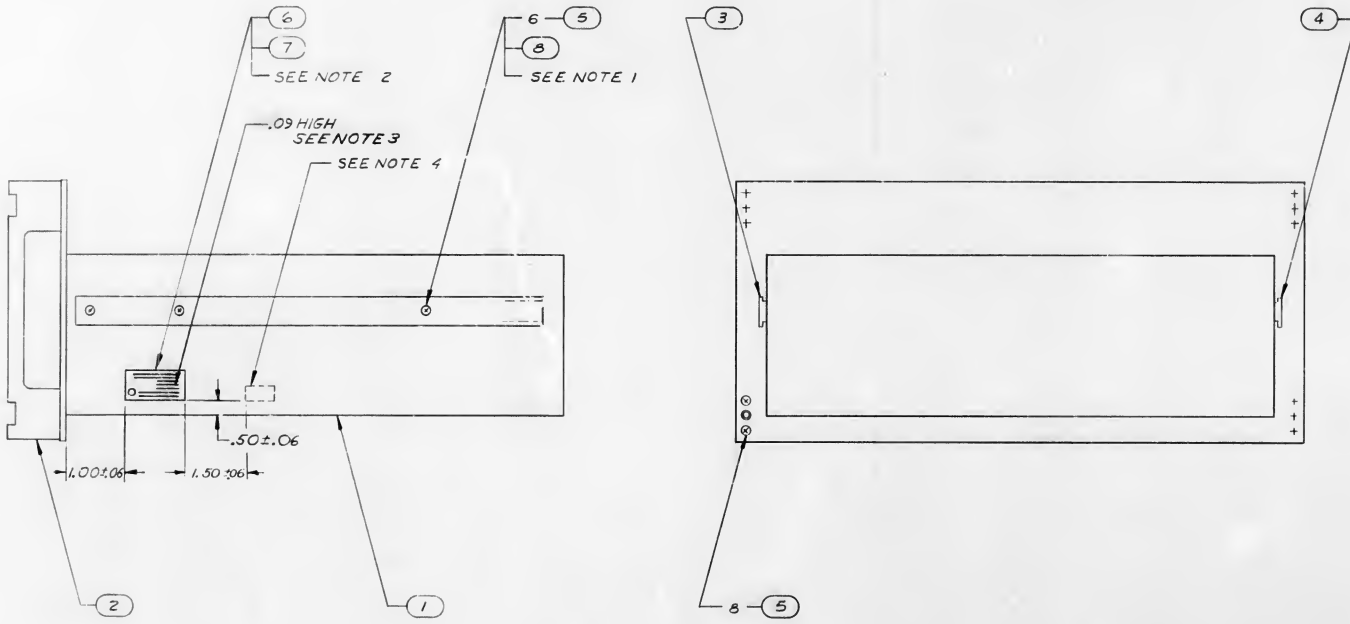


- NOTES
1. ASSEMBLE FIND NO.5 USING FIND NO.8
 2. ASSEMBLE FIND NO.6 USING FIND NO.7.
 3. SERIALIZE PER ND1002023
 4. MARK APPROX WEIGHT IN LBS .25 HIGH NORMAL GOTHIC CHARACTERS PER ND1002019 USING WHITE INK 1006271-1 IN POSITION SHOWN

AR MIL-S-22473,GR. HY	SEALING & RETAINING COMPOUND	8
AR MIL-A-5092 TYPE II	CEMENT	7
1 1004260-226	PLATE, IDENT	6
14 MS51959-45	SCREW, FLAT HD	5
1 1006930-4	SLIDE, LH CHASSIS SECTION	4
1 1006930-3	SLIDE, RH CHASSIS SECTION	3
2 1014215-3	HANDLE ASSY	2
1 1006466	POWER SUPPLY	1
QTY REQ	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
-011		

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
TOLERANCES ON		CONTRACT NO. NAS 9-497	
DECIMALS	DECIMALS ANGLES	DRAWN BY [illegible] DATE 25 MAY 65	
.XX	.XXX	CHECKED BY [illegible] DATE 16 JUN 65	
DO NOT SCALE DRAWING		APPROVAL BY [illegible] DATE 7/9/65	
MATERIAL		APPROVAL BY [illegible] DATE 7/11/66	
2014042		NASA APPROVAL A. S. [illegible]	
NEXT ASSY		CODE IDENT NO. 49956	
APPLICATION		MIT. APPROVAL [illegible]	
		SCALE 1/2 WT	
		SHEET 1 OF 1	

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
0	RELEASED PER CDR 25002	7/8/65	1/1/65
-	CLASS A RELEASED PER TDAR 25472		
A	CHANGED PER TDAR 26242	1/1/66	1/1/66
	DR APPROVED CHAS. J. Blandford P.D.		

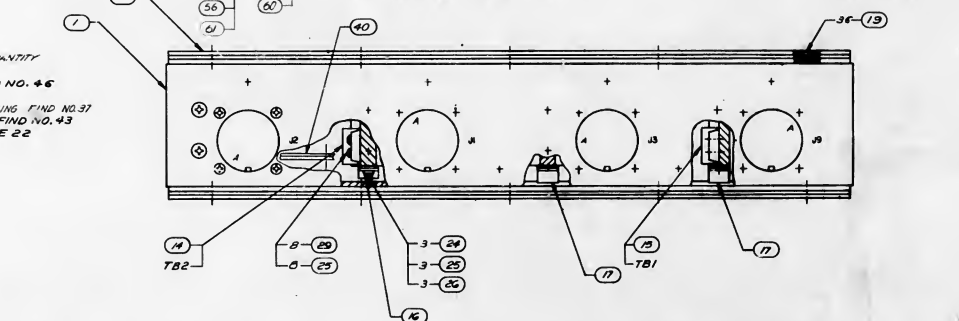
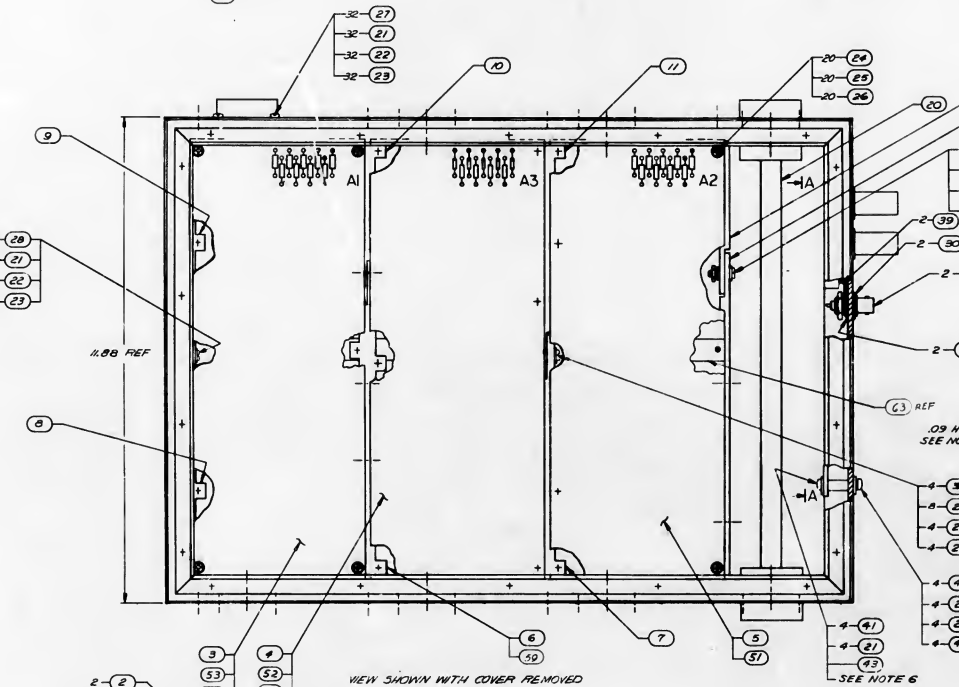
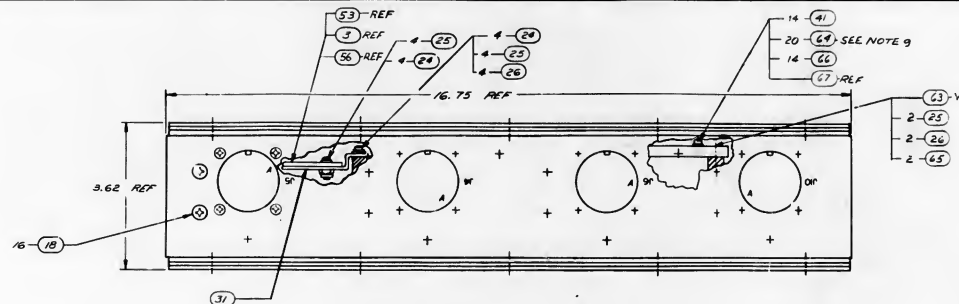


- NOTES:
1. ASSEMBLE FIND NO. 5 USING FIND NO. 8
 2. ASSEMBLE FIND NO. 6 USING FIND NO. 7
 3. SERIALIZE PER ND1002023
 4. MARK APPROX WEIGHT IN LBS .25 HIGH NORMAL GOTHIC CHARACTERS PER ND1002019 USING WHITE INK 1006271-1 IN POSITION SHOWN

AR MIL-S-22473, GR. HV	SEALING & RETAINING COMPOUND	8
AR MIL-A-5092 TYPE II	CEMENT	7
1 1004260-221	PLATE IDENT	6
14 MS51959-45	SCREW, FLAT HD	5
1 1006930-4	SLIDE, LH CHASSIS SECTION	4
1 1006930-3	SLIDE, RH CHASSIS SECTION	3
2 1014215-4	HANDLE ASSY	2
1 1006464	POWER SUPPLY	1
QTY R'D TO	PART OR IDENTIFYING NO.	FIND NO.
-011		

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMALS DECIMALS ANGLES DO NOT SCALE DRAWING MATERIAL		RAYTHEON CO. LEXINGTON, MASS. CONTRACT NO. NAS 9-437 DRAWN <i>R. L. L.</i> DATE 15 MAY 65 CHECKED <i>C. F. L.</i> DATE 16 MAY 65 APPROVAL <i>R. L. L.</i> DATE 16 MAY 65 APPROVAL <i>C. F. L.</i> DATE 16 MAY 65 NASA APPROVAL <i>A. C. METZGER</i> MIT APPROVAL <i>W. L. L.</i> DATE 16 MAY 65 MIT APPROVAL <i>C. L. L.</i> DATE 16 MAY 65		MANNED SPACECRAFT CENTER HOUSTON, TEXAS POWER SUPPLY 10,13,28VDC ASSY COMPUTER TEST SET CODE IDENT NO. 1 SIZE 49956 D 2014235 SCALE 1/2" = 1"	
2014042	NEXT ASSY	USED ON	APPLICATION		

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327



- NOTES
1. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
 2. SOLDER PER HD1002071
 3. PRE-CATE TEN HD1002032 EXCEPT USE FIND NO. 46
 4. CRUZEIR REPAIR KIT
 5. BOND FIND #1A,36,54,57,6P 62 TO FIND NO.1 USING FIND NO. 43
 6. ASSEMBLE FIND NO. 41 TO FIND NO.42 USING FIND NO. 37
 7. QQ-W-343, TYPE S, SOFT COATED (A) AVG SIZE 22
 8. AR DENOTES AS REQUIRED
 9. 10. 54 TO BE ASSEMBLED UNDER FIND 67
 10. A. ATTACH FIND 67
 11. COMP. FIND 67. REP. HD1002026

		REMARKS		DATE	APPROVED
STN	DESCRIPTION				
	RELEASED PER [unclear]				
1	CHANGED PER [unclear] [unclear]				100
	OR [unclear] CHANGED PER [unclear]				
	CLASS B CHANGED PER [unclear]				100
	CHANGED PER [unclear] [unclear]				
	CLASS A RELEASED PER [unclear]				100
A	CHANGED PER [unclear] [unclear]				
B	CHANGED PER [unclear] [unclear]				100
	OR [unclear] CHANGED PER [unclear]				
C	CHANGED PER [unclear] [unclear]				100
	OR [unclear] CHANGED PER [unclear]				
D	CHANGED PER [unclear] [unclear]				100
	CHANGED PER [unclear] [unclear]				
E	CHANGED PER [unclear] [unclear]				100
	OR [unclear] CHANGED PER [unclear]				
F	CHANGED PER [unclear] [unclear]				100
	OR [unclear] CHANGED PER [unclear]				
G	CHANGED PER [unclear] [unclear]				100
	OR [unclear] CHANGED PER [unclear]				
H	CHANGED PER [unclear] [unclear]				100
	OR [unclear] CHANGED PER [unclear]				
I	CHANGED PER [unclear] [unclear]				100
	OR [unclear] CHANGED PER [unclear]				

[illegible][illegible]

2014255 J

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
F	CLASS A RELEASED PER TDOR 26632	4/10/68	W.R.
G	CHANGED PER TDOR 27876 DR 9445 CHK 6.7.3	4/10/68	W.R.
H	CHANGED PER TDOR 30570 DR 9.1.1.1 CHK 6.7.3	4/10/68	W.R.
J	CHANGED PER TDOR 32632 DR R.M. CHK 6.7.3	4/10/68	W.R.

NOTE

1. SET(2014255-011) IS USED DURING G&N TEST FOR INTERCONNECTING GROUND SUPPORT EQUIPMENT AND APOLLO GUIDANCE COMPUTERS PER AGC/GSE INTERCONNECTION DWGS 2014359, 2014360 & 2014460
2. SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PS 2014255
3. SET(2014255-021) IS USED DURING G&N TEST FOR INTERCONNECTING GROUND SUPPORT EQUIPMENT AND APOLLO GUIDANCE COMPUTERS PER AGC/GSE INTERCONNECTION DWGS 2016405, 2016417 AND 2016418
4. SET(2014255-031/044) IS USED DURING G&N TEST FOR INTERCONNECTING GROUND SUPPORT EQUIPMENT AND APOLLO GUIDANCE COMPUTERS PER AGC/GSE INTERCONNECTION DWG 2016405, 2016417 & 2016418

1	—	—	2014254-031	BUFFER CIRCUIT ASSY	19	
1	1	—	2014137-021	CABLE ASSY W226	18	
—	—	—	2014418	AGC/GSE INTERCONN BLK I (100)	REF	
—	—	—	2014417	AGC/GSE INTERCONN BLK II	REF	
—	—	—	2016405	AGC/GSE INTERCONN LEM	REF	
—	1	1	2014254-021	BUFFER CIRCUIT ASSY	17	
—	—	—	2014360	AGC/GSE INTERCONN BLK I-100	REF	
—	—	—	2014359	AGC/GSE INTERCONN BLK II	REF	
—	—	—	2014460	AGC/GSE INTERCONN LEM	REF	
—	—	—	W265-011-03	SCREEN, SOCKET HEAD	16	
—	—	—	W265-011-01	WASHER, FLAT	15	
1	1	1	2016394-011	AGC/PSA/SC ADAPTER ASSY	14	
2	2	2	W2306 A/U	ADAPTER RT ANGLE, BNC	13	
—	—	—	2014254-011	BUFFER CIRCUIT ASSY	12	
1	1	1	2014392-011	SELF TEST ASSY	11	
1	1	1	2014482-011	CABLE ASSY W234	10	
1	1	1	2016360-011	↑ W265	9	
1	1	1	2014483-011	↑ W233	8	
1	1	1	2014470-011	↑ W259	7	
—	—	1	2014137-011	↑ W226	6	
1	1	1	2014484-011	↑ W232	5	
1	1	1	2014462-031	↑ W239	4	
1	1	1	2014462-021	↑ W238	3	
1	1	1	2014462-011	↓ W237	2	
1	1	1	2014463-011	↓ CABLE ASSY W236	1	
QTY	QTY	QTY	QTY	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
2041-031	021	011	011			

LIST OF MATERIALS

RAYTHEON CO. LEXINGTON, MASS. CONTRACT NO. NAS 9-297		HANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN BY DATE CHECKED BY DATE APPROVAL BY DATE APPROVAL BY DATE		AGC/GSE INTERCONNECTION SET G & N TEST	
DO NOT SCALE DRAWING MATERIAL		CODE IDENT NO. 49956 D NASA DRAWING NO. 2014255	
FINAL 19000.30 NEXT ASSY USED ON APPLICATION		NASA APPROVAL MIT APPROVAL MIT APPROVAL	
		SCALE 1/16" = 1"	
		SHEET 1 OF 1	

REV. JON

10

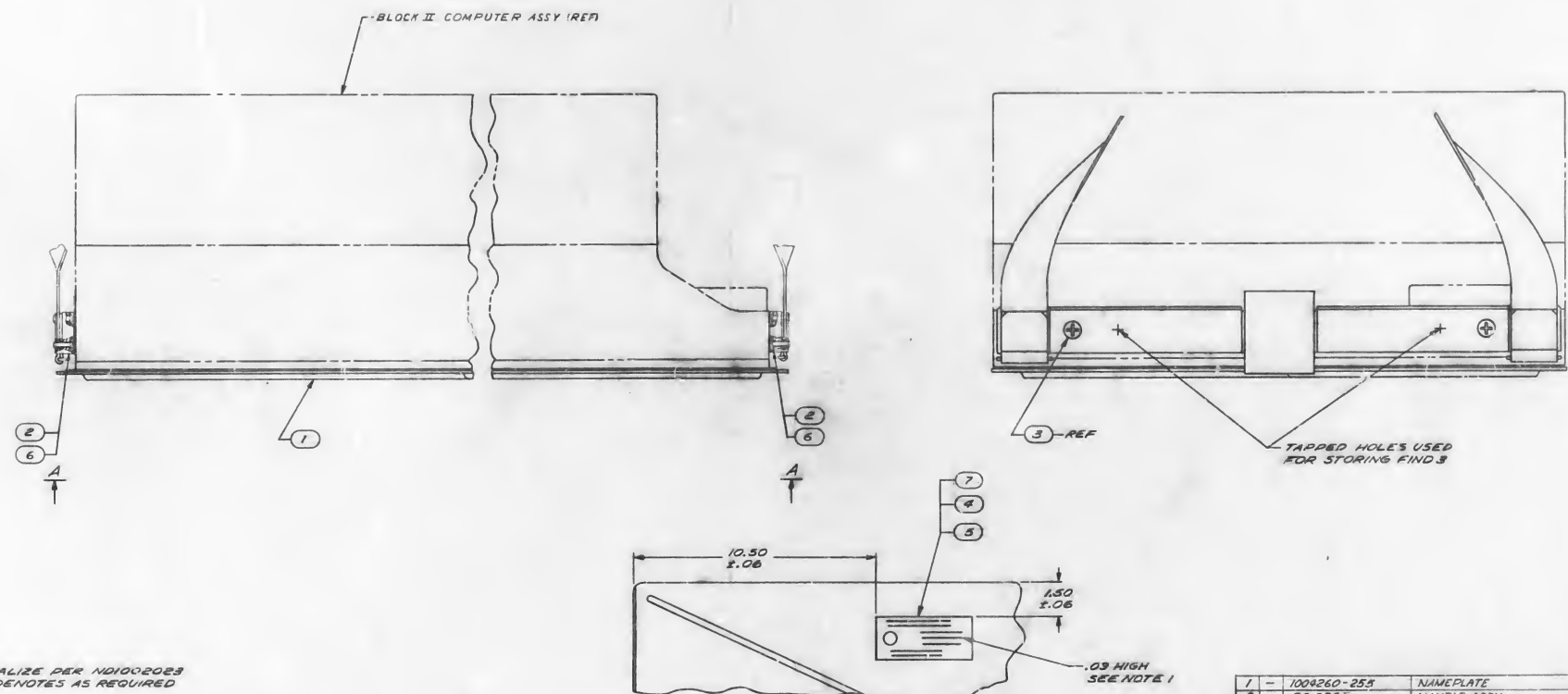
1



1

1

REVISIONS		DATE	APPROVED
0	RELEASED PER CCA 10540		
1	CLASS A RELEASED PER TORR 25517		
2	CHANGED PER TORR 25517		
3	CHANGED PER TORR 30086		
4	CHANGED PER TORR 31133		
5	CHANGED PER TORR 31133		
6	CHANGED PER TORR 31133		
7	CHANGED PER TORR 31133		



NOTES
1. SERIALIZE PER NDI000203
2. AR DENOTES AS REQUIRED

PARTIAL VIEW A-A
SCALE 1/2

QTY	QTY	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	1000260-255		NAMEPLATE	7
2	2016367		HANDLE ASSY	6
AR	ARL-A-5092 TYPE II		ADHESIVE	5
1	1000260-205		NAME PLATE	4
3	2016355		SCREW, FLAT HD CROSS RECESSED	3
2	2016303		HANDLE ASSY	2
1	2016314		PLATE, PROTECTIVE ASSY	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMALS ANGLES		BAYVIEW CO. LEWISTON, MAINE		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DO NOT SCALE DRAWING		CONTRACT NO. W-54-107		AGC HANDLING FIXTURE ASSEMBLY	
MATERIAL		DRAWN BY DATE		CHECKED BY DATE	
FINAL 1900030		APPROVAL DATE		APPROVAL DATE	
NEXT ASSY USED ON		NASA APPROVAL		NASA APPROVAL	
APPLICATION		DATE IDENT NO.		DATE IDENT NO.	
		49956 F		2014282	
		SCALE 1/1		SHEET 1 OF 1	

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
F	CLASS A RELEASED PER TDAR 27693	4/1/80	[Signature]
G	CHANGED PER TDAR 28363 DRAWING CHANGED PER AFPE 7...	4/1/80	[Signature]



0-11	LIST OF MATERIALS	
MAYHEIM CO LEXINGTON, MASS. CONTRACT NO. NAS 8-347 DRAWN BY W. J. DATE 4-10-68 CHECKED BY W. J. DATE 4-10-68 APPROVAL P. D. DATE 4-10-68 APPROVAL W. J. DATE 4-10-68 APPROVAL W. J. DATE 4-10-68	MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS AC INPUT PANEL ASSEMBLY OPERATION CONSOLE	
NASA APPROVAL A. C. METZGER UNIT APPROVAL W. J. DATE 4-10-68	CODE DESC. NO. 49956 UNIT F	NASA DRAWING NO. 2014302 SHEET 1 OF 1

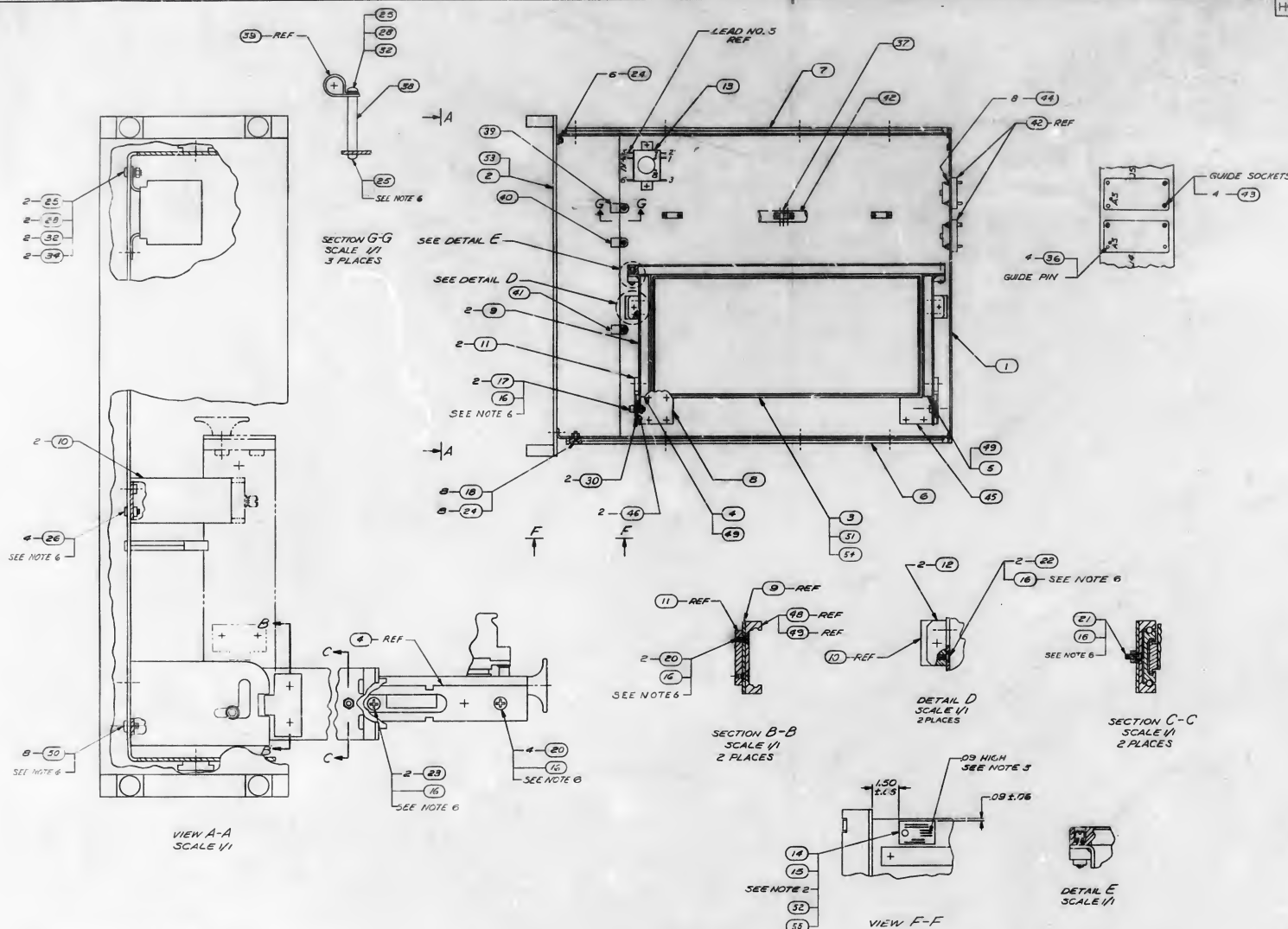
1. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
2 FABRICATE PER ND10002032
3 SOLDER PER ND1002071
4 CRIMP PER ND1002204
5. STRIP 15 AND FIN PER ND10002071
6. ATTACH 1 OF FINE NO.35 TO EACH END OF LEAD
EXCEPT ONE END OF 89
7. AR DENOTES AS REQUIRED
8. SERIALIZE PER ND1002023
9. QW-VN-343, TYPE 5 AWS 16 SCFT COATED 8 FOR FINE NO 36
10. ON END 86 TO RPTN 10 TO PART NO AS SHOWN FOR
ND10002032 USE PART NO 10002032

JUMPER CHART				
COND IDENT	FROM	TO	FIND NO.	AWG
B1	TBI-1	TBI-3	37	16
B2	TBI-5	TBI-7	1	16
B3	TBI-9	TBI-11		
B4	TBI-11	TBI-13		
B5	TBI-13	TBI-15		
B6	TBI-17	TBI-19		
B7	TBI-19	TBI-21	1	
B8	TBI-21	TBI-23	37	16
B9	TBI-27	21	37	16

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS DESCRIBED BY MS D-709

2014366 H

REV	DESCRIPTION	DATE	APPROVED
0	RELEASED PER CDR 25534		
1	CHANGED PER CDR 25534		
2	CHANGED PER CDR 25534		
3	CHANGED PER CDR 25534		
4	CHANGED PER CDR 25534		
5	CHANGED PER CDR 25534		
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8	CHANGED PER CDR 25534		
9	CHANGED PER CDR 25534		
10	CHANGED PER CDR 25534		
11	CHANGED PER CDR 25534		
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48	CHANGED PER CDR 25534		
49	CHANGED PER CDR 25534		
50	CHANGED PER CDR 25534		
51	CHANGED PER CDR 25534		
52	CHANGED PER CDR 25534		
53	CHANGED PER CDR 25534		
54	CHANGED PER CDR 25534		
55	CHANGED PER CDR 25534		



- NOTES
- NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
 - BASIC PART NO. 14, FIND NO. 52 AND FIND NO. 55 TO FIND NO. 15 AS APPLICABLE
 - SERIALIZE PER ND1000205
 - REMARK: PLR ND1000205E EXCEPT USE FIND NO. 37
 - SOLDER PER ND1000207
 - ASSEMBLY FIND NOS. 17, 20, 21, 22, 23, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55 USING FIND NO. 14
 - SEE NOTE 6

QTY	DESCRIPTION	REVISION	DATE	APPROVED
1	1006260-274	NAMEPLATE	55	
1	2014362-031	LOGIC PLATE ASSY	54	
1	2014364-021	FRONT PANEL ASSY	53	
1	1006260-021	NAMEPLATE	52	
1	2014362-021	LOGIC PLATE ASSY	51	
1	MS15157-42	SCREW, PAN HD, CROSS RECESSED	50	
1	1006988-4	SLIDE	49	
1	1006988-3	SLIDE	48	
1	MS15157-009	WASHER, FLAT	47	
1	2016340-001	BRACKET, RM	46	
1	1006671-003	NUT, STOP	45	
1	1006671-004	GUIDE SOCKET	44	
1	2014362-011	NAMEPLATE	43	
1	MS15157-009	CLAMP	42	
1	MS15157-009	CLAMP	41	
1	MS15157-009	CLAMP	40	
1	MS15157-009	CLAMP	39	
1	MS15157-009	CLAMP	38	
1	MS15157-009	CLAMP	37	
1	MS15157-009	CLAMP	36	
1	MS15157-009	CLAMP	35	
1	MS15157-009	CLAMP	34	
1	MS15157-009	CLAMP	33	
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1	MS15157-009	CLAMP	29	
1	MS15157-009	CLAMP	28	
1	MS15157-009	CLAMP	27	
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1	MS15157-009	CLAMP	4	
1	MS15157-009	CLAMP	3	
1	MS15157-009	CLAMP	2	
1	MS15157-009	CLAMP	1	

QTY	DESCRIPTION	REVISION	DATE	APPROVED
1	1006260-274	NAMEPLATE	55	
1	2014362-031	LOGIC PLATE ASSY	54	
1	2014364-021	FRONT PANEL ASSY	53	
1	1006260-021	NAMEPLATE	52	
1	2014362-021	LOGIC PLATE ASSY	51	
1	MS15157-42	SCREW, PAN HD, CROSS RECESSED	50	
1	1006988-4	SLIDE	49	
1	1006988-3	SLIDE	48	
1	MS15157-009	WASHER, FLAT	47	
1	2016340-001	BRACKET, RM	46	
1	1006671-003	NUT, STOP	45	
1	1006671-004	GUIDE SOCKET	44	
1	2014362-011	NAMEPLATE	43	
1	MS15157-009	CLAMP	42	
1	MS15157-009	CLAMP	41	
1	MS15157-009	CLAMP	40	
1	MS15157-009	CLAMP	39	
1	MS15157-009	CLAMP	38	
1	MS15157-009	CLAMP	37	
1	MS15157-009	CLAMP	36	
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1	MS15157-009	CLAMP	6	
1	MS15157-009	CLAMP	5	
1	MS15157-009	CLAMP	4	
1	MS15157-009	CLAMP	3	
1	MS15157-009	CLAMP	2	
1	MS15157-009	CLAMP	1	

2014366 H

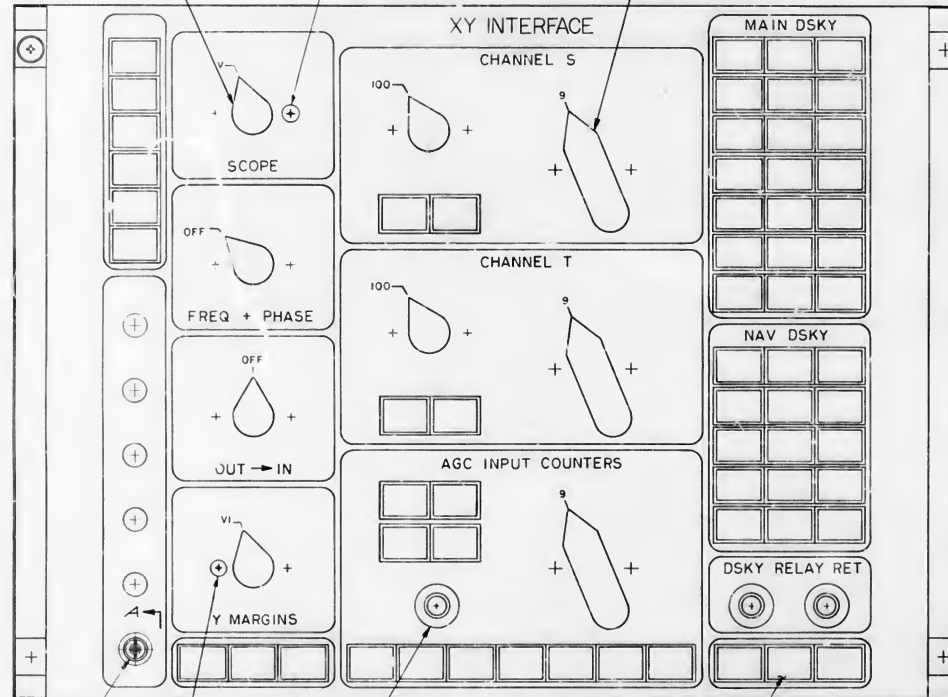
STANDARD DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-10000

49956 J

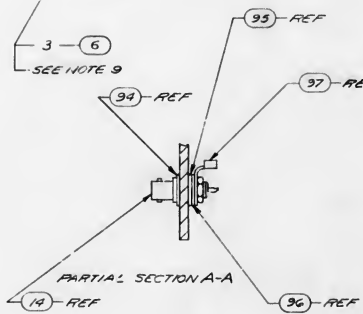
2014366

2014375 E

REV	DESCRIPTION	DATE	APPROVED
0	RELEASED PER CCA R25318	10/10/67	10/10/67
1	CHANGED PER CCA R25318 DR W. K. CHK. (A) R25318	10/10/67	10/10/67
2	CLASS B CHANGED PER CCA R25302	10/10/67	10/10/67
3	CHANGED PER CCA R25352	10/10/67	10/10/67
4	CHANGES PER CCA R25352 AND CLASS B CHANGED PER TDRR 28118	10/10/67	10/10/67
5	CHANGED PER TDRR 26701	10/10/67	10/10/67
6	CHANGED PER TDRR 26694	10/10/67	10/10/67
7	CHANGED PER TDRR 28118	10/10/67	10/10/67

VIEW SHOWN
WITHOUT COMPONENTS

- NOTES
1. ASSEMBLY FIND NO. 3 & FIND NO. 4 USING FIND NO. 5 WHERE INDICATED
 2. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
 3. AR DENOTES AS REQUIRED
 4. M000418-009 PER MIL-S-6744
 5. PARTIAL SECTION A-A PER ND1002071 EXCEPT USE FIND NO. 89
 6. 00-W-543, TYPE S, SOFT COATED (A) AWG #12 24
 7. STRIP AL. LEADS .504.06 & THIN PER ND1002071
 8. SOLDER PER ND1002071
 9. APPLY FIND 5 TO INTERNAL THREADS OF FIND 6
 10. SPOT THE LEGS TO WAFER SPACERS OF S1, S2 & S3 SO THAT WIRES ARE HELD AS CLOSE AS POSSIBLE TO SWITCHES



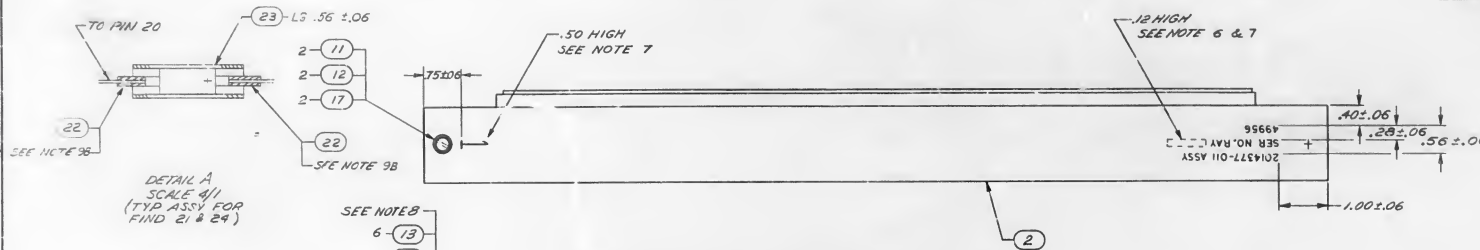
PARTIAL SECTION A-A

PARTS LIST CONTINUED ON SHEET 2				
1	1	1006404-067	LIGHT INDICATOR - LENS	45
1	1	-062		44
1	1	-063		43
1	1	-064		42
1	1	-065		41
1	1	-060		40
1	1	-061		39
1	1	-057		38
1	1	-058		37
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1	1	-048		29
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1	1	-050		27
1	1	-045		26
1	1	-046		25
1	1	-047		24
1	1	-042		23
1	1	-043		22
1	1	-047		21
1	1	-039		20
1	1	-040		19
1	1	-041		18
39	39	-005	- LENS	17
39	39	-079	- DIS SCAN	16
39	39	-079	- COLOR FTR	15
39	39	1006404-001	LIGHT INDICATOR - OSC UNIT	14
6	6	M555179-1094A	CONNECTOR, ELECTRICAL	13
6	6	M591328-2K2B	KNOB, CONTROL, POINTER	12
3	3	1006928	KNOB, BAR	11
1	1	1006462-001	SWITCH, ROTARY	10
1	1	1006257-000	SWITCH, ROTARY	9
1	1	1006461-001	SWITCH, ROTARY	8
2	2	1006257-002	SWITCH, ROTARY	7
3	3	1006892-3	SWITCH, ROTARY	6
3	3	M525089-3C	SWITCH, PUSH	5
AR	AR	MIL-S-22473, GR HV	SEALING & RETAINING COMP	4
2	2	M551959-29	SCREW, MACH, FLAT HD	3
24	24	M551959-44	SCREW, MACH, FLAT HD	2
2	2	1014215-7	HANDLE ASSY	1
1	1	2014350	PANEL, FRONT	
QTY REQD	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

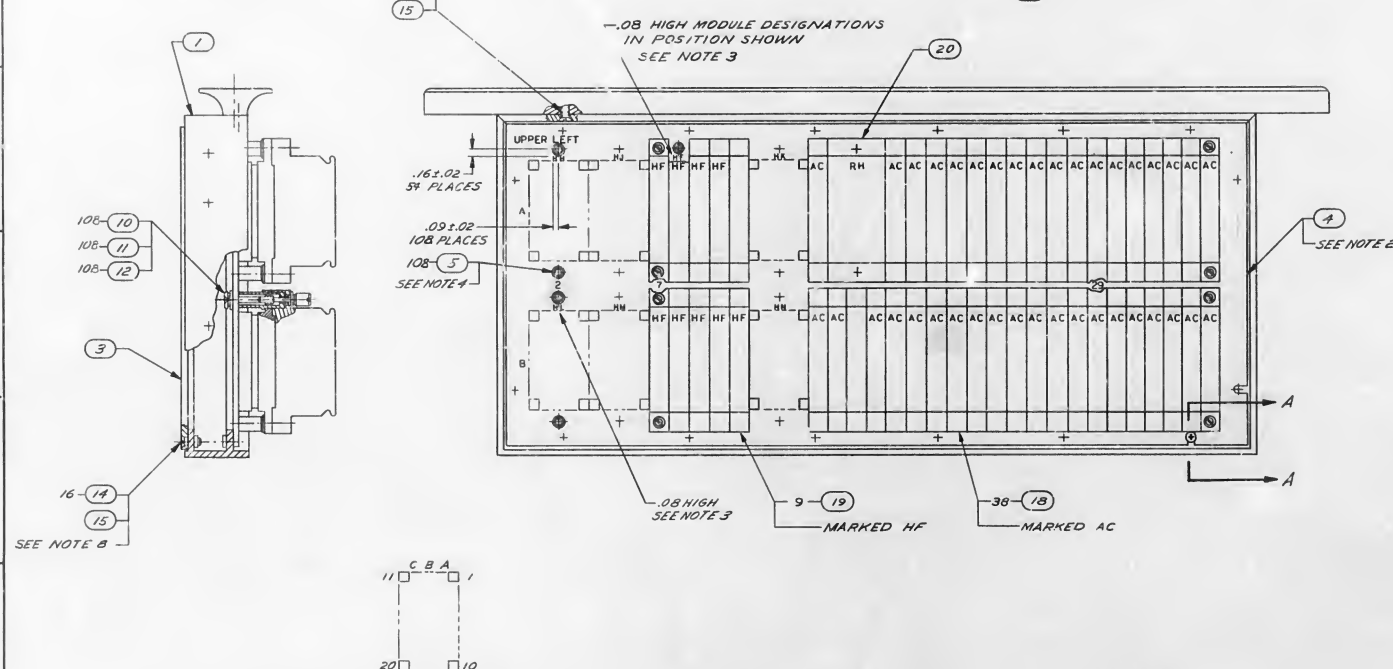
* DENOTES LENGTH IN FEET

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMALS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DO NOT SCALE DRAWING		FRONT PANEL ASSY X Y INTERFACE COMPUTER TEST SET	
MATERIAL		CODE IDENT NO. 49956 F	
2014040		DATE DRAWING NO. 2014375	
NEXT ASSY USED ON APPLICATION		SCALE 1/1 WT SHEET 1 OF 2	

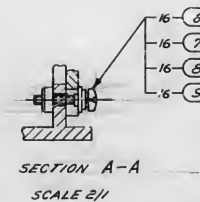
INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-7032



REVISIONS			
SYM	DESCRIPTION	DATE	APPROV
O	RELEASED PER CCA R25015	6/10/11	AK
	1 CHANGED PER CCA R25485. DELETED CHN FROM APPD 0.5.24	6/11/11	AK
-	CLASS CHANGED PER CCA R25502	6/14/11	AK
	1 CHANGED PER CCA R25621 DELETED CHN FROM APPD 0.1.0	7/10/11	AK
	2 CHANGED PER CCA R25711 DELETED CHN FROM APPD 0.1.0	7/11/11	AK
C	CHANGED PER CCA R25987 TO CLASS A RELEASED PER TORR 22618	7/16/11	AK



REF DES	FIND NO.	FROM	TO	REMARKS
C1	21	B14-01	A15-20	
C2		B14-03	B15-20	
C3		B14-05	B14-20	
C4		B14-09	B13-20	
C5	21	A13-15	A13-20	
C6	24	A15-16	A16-20	
C7	24	A15-6	A18-20	



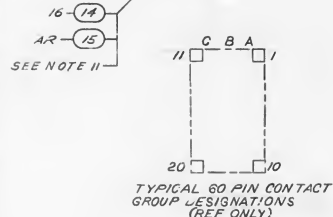
X	2044/46	LOGIC DIAGRAM
X	2044/100	WIRE WRAP MACH CARD

* DENOTES LENGTH IN FEET

<div>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON DECIMALS FRACTIONS ANGLES .0005 .0005 .0005 DO NOT SCALE DRAWINGS MATERIAL: 204040 MEET ASY USED ON APPLICATION</div>	<div>CONTRACT NO. 1-79- LEXINGTON, MASS. ORDER NO. 1-79- DRAWING NO. 1-79- APPROVAL: [Signature] APPROVAL: [Signature]</div>	<div>MANNED SPACECRAFT CENTER HOUSTON, TEXAS LOGIC PLATE ASSY NO. I XY INTERFACE COMPUTER TEST SET</div>
	<div>S-S-A APPROVAL: G. J. METZGER S-E APPROVAL: [Signature] S-T APPROVAL: [Signature]</div>	<div>DSCA IDENT NO. 800 DATE SHOWN 49956 F 2014377</div>

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-7000

2014378	C
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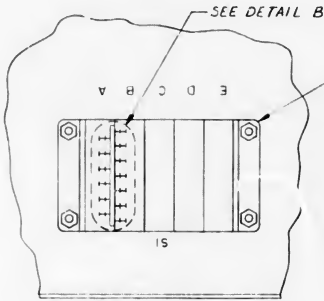
NOTES

1. NUMBERS 1 PRECEDING BALLOONS DENOTE QUANTITY
2. WIREWRAP FIND NO. 4 USING FIND NO. 16 PER 2014101 & ND1002031
3. MARK NORMAL GOTHIC CHARACTERS AS SHOWN PER ND1002019
USING BLACK INK 1006271-10
4. LOCATE & INSTALL FIND NO. 5 PER KEY CODE MARKING
USING LING NO. 1016407
5. AP DENOTES AS REQUIRED
6. SERIALIZE PER ND1002023
7. MARK NORMAL GOTHIC CHARACTERS AS SHOWN PER ND1002019
USING WHITE INK 1006271-1
8. AFTER MACHINE WIRE WRAPPING PLATE, INSTALL FIND NO. 22
PER CHART A & DETAIL A
8 A. SOLDER PER ND1002071
9. LEFT END OF SLEEVE ON COMPONENT LEADS TO BE
DETERMINED BY PIN LOCATION AT ASSY
10. ~~MIL-1-631 TYPE F FORM U GRADE 1 CLASS 1 CATEGORY I~~
~~COLOR BLUE AWG SIZE NO. 84 FOR FIND NO. 23~~
10. MIL-1-631 TYPE F FORM U GRADE 1 CLASS 1 CATEGORY I
COLOR CLEAR AWG SIZE NO. 8 FOR FIND NO. 24
11. ASSEMBLE FIND NO. 13 & FIND NO. 14 USING FIND NO. 15

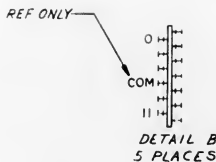
SECTION B-B
SCALE 2/1

* DENOTES LENGTH IN FEET

QTY REQD	PART OR IDENTIFYING NO.	HOMECOMMUNICATOR OR DESCRIPTION	PNR NO.
-011		LIST OF MATERIALS	
BAYNECO CO. LEICESTER, MASS. CONTRACT NO. NAS-5044		MANHATTAN SPACECRAFT CENTER HARTFORD, TEXAS	
10. <i>1 of 2</i> CHANGING <i>1 of 2</i> APPROVAL <i>1 of 2</i> APPROVAL <i>1 of 2</i> APPROVAL <i>1 of 2</i> APPROVAL <i>1 of 2</i>		LOGIC PLATE ASSY NO. 2 XY INTERFACE COMPUTER TEST SET	
NASDA APPROVAL <i>1 of 2</i> NET APPROVAL <i>1 of 2</i>		BOOK IDENT. NO. 49956	PNR DRAWING NO. 2014378
		QTY	INSTRY / OF



VIEW A-A



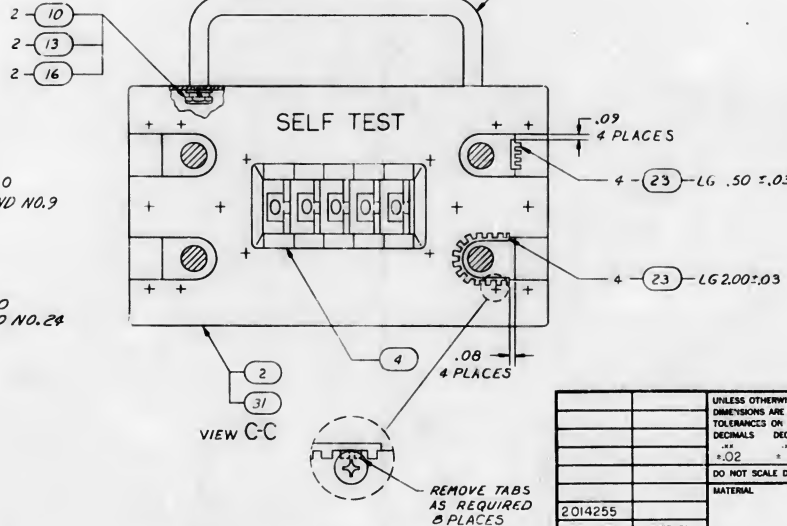
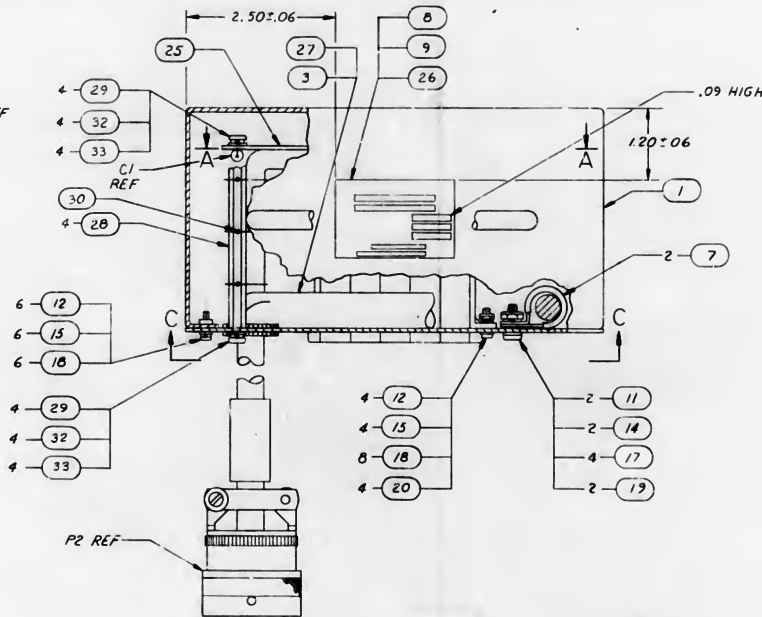
DETAIL B
5 PLACES

JUMPER CHART				
COND IDENT	FROM	TO	FIND NO.	AWG
B1	S1B-C	S1C-C	21	22
B2	S1C-C	S1D-C	21	22
B3	S1D-C	S1E-C	21	22
B4	S1E-C	S1E-B	21	22
B5	S1E-B	S1B-I	21	22

FOR -021 ONLY

NOTES:

- NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
- SOLDER PER ND1002071
- FABRICATE PER ND1002032 EXCEPT USE FIND NO.30
- BOND FIND NO.8 OR FIND NO.26 TO FIND NO.1 USING FIND NO.9
- SERIALIZE PER ND1002023
- MARK IDENTIFICATION PER ND1002019
- QQ-W-343 TYPES, AWG NO.22 SOFT COATED & FOR FIND NO.21
- AR DENOTES AS REQUIRED
- CUT FIND NO.23 TO LENGTHS SHOWN AND BOND TO FIND NO.1 AND FIND NO.2 OR FIND NO.31 USING FIND NO.24 DO NOT APPLY ADHESIVE TO PAINTED SURFACE
- ⓐ DENOTES LENGTH IN FEET



VIEW C-C

REMOVE TABS
AS REQUIRED
B PLACES

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

2014392 C

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
C	REPLACES REV B WITH CHANGES PER TDR 35532	11/1/96	LP

REPLACES REV B WITH CHANGES

	-	2016486	SCHEMATIC	REF
	-	2014191	SCHEMATIC	REF

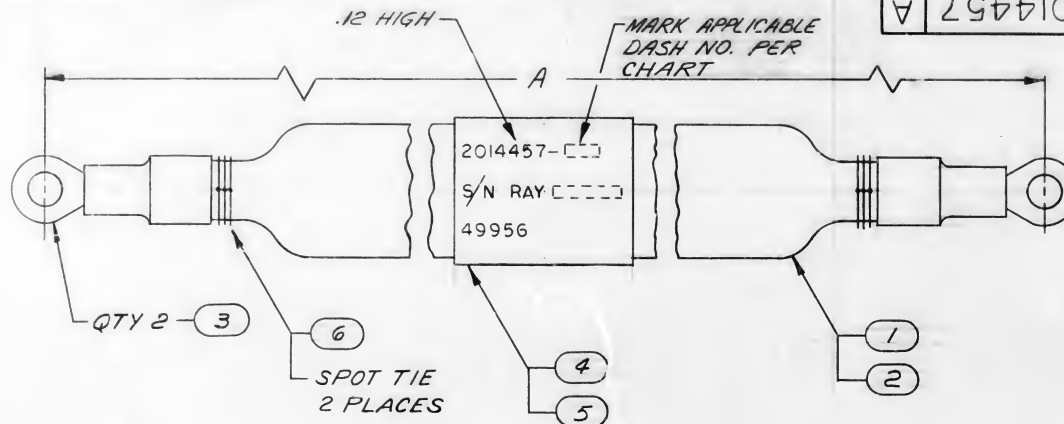
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMALS .01 ANGLES .02		RAYTHEON CO. LEXINGTON, MASS. CONTRACT NO. NAS-9-497		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DO NOT SCALE DRAWING		DRAWN BY DATE 10/24/67 CHECKED BY DATE 10/25/67 APPROVAL BY DATE 10/25/67		SELF TEST ASSEMBLY	
MATERIAL		NASA APPROVAL BY DATE 10/25/67		CODE IDENT NO. 49956	
APPLICATION		MIT APPROVAL BY DATE 10/25/67		NASA DRAWING NO. 2014392	
				SCALE 1/1	
				SHEET 1 OF 1	

4

3

2

1



PART NO.	DIM A
2014457-011	18.00±.25
2014457-021	36.00±.50
2014457-031	24.00±.25
2014457-041	30.00±.50
2014457-051	8.00±.25
2014457-061	60.00±.50

NOTES

1. MIL-I-631 TYPE F, FORM U₂, GRADE A, CLASS 1 CATEGORY 1, ID. 100, COLOR BLACK
2. MARK NORMAL GOTHIC CHARACTERS AS SHOWN PER ND 1002019 USING BLACK INK 1006256-001
3. SERIALIZE PER ND 1002023
4. CRIMP PER ND 1002206
5. FABRICATE PER ND 1002032, EXCEPT USE FIND 6
6. CUT BRAID AND SLEEVING AS SHOWN

* DENOTES LENGTH IN FEET

AR	AR	AR	AR	AR	AR	1006458-004	TAPE, LACING	6
AR	AR	AR	AR	AR	AR	1006253	ADHESIVE	5
1	1	1	1	1	1	1006415-137	BAND MARKER	4
2	2	2	2	2	2	M525036-26	TERMINAL, LUG	3
* 4.7	0.4	2.2	1.8	2.7	1.2	SEE NOTE 1	SLEEVING, INSULATION	2
* 5.0	0.6	2.5	2.0	3.0	1.5	1006442-002	BRAID, WIRE	1
QTY REQD	QTY REQD	QTY REQD	QTY REQD	QTY REQD	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
061	051	041	031	021	011	LIST OF MATERIALS		

2014024		2014042		NEXT ASSY		USED ON		APPLICATION	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMALS DECIMALS ANGLES .xxx .xxx ± ±.06 ± ±				DO NOT SCALE DRAWING		MATERIAL		RAYTHEON CO. LEXINGTON, MASS. CONTRACT NO. NAS 9-497 DRAWN BY DATE 11 SEP 65 CHECKED BY DATE 29 SEPT 65 APPROVAL BY DATE 5 OCT 65 APPROVAL BY DATE 10/17/65 NASA APPROVAL BY DATE 11/16/65 MIT APPROVAL BY DATE 10/16/65 MIT APPROVAL BY DATE 10/16/65	
MANNED SPACECRAFT CENTER HOUSTON, TEXAS				CABLE ASSY, GROUND		SIZE CODE IDENT NO. C 49956		NASA DRAWING NO. 2014457	
SCALE 1/1				WT		SHEET 1 OF 1			

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

4

3

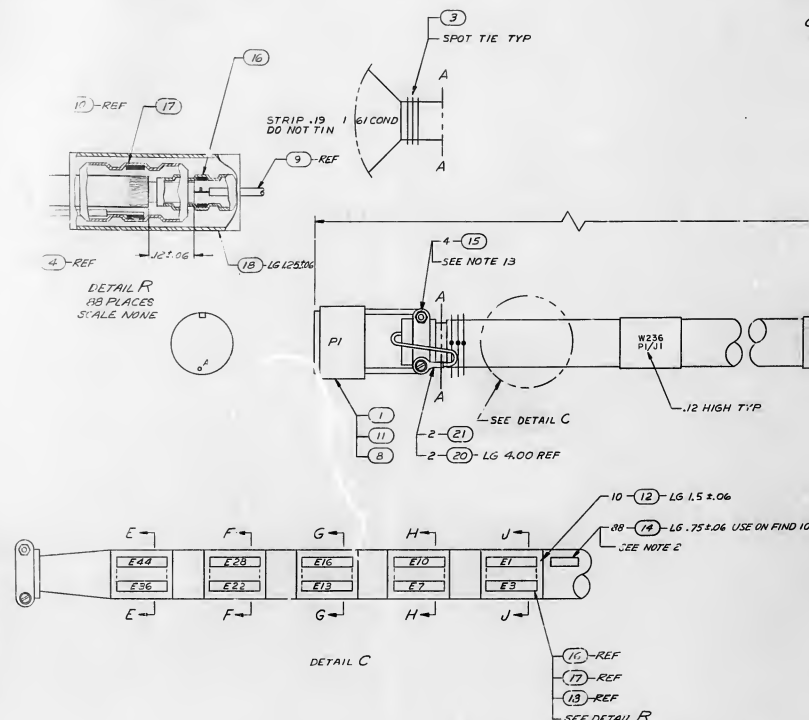
2

1

2014457 A

B

A



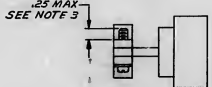
1. FABRICATE PER NDI002032 EXCEPT USE FIND 3
2. MARK CONDUCTOR IDENTIFICATION PER NDI002019
3. CRIMP PER NDI002206
4. SERIALIZE PER NDI002023
5. MARK NORMAL SOTHC CHARACTERS PER NDI002019
USING BLACK INK 006255-COI
6. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN; FOR COMPLETE
DESIGNATIONS PREFIX WITH SUB-ASSEMBLY DESIGNATIONS
7. MIL-I-23063, CLASS I, BLACK, FOR FIND 12, SIZE 2.00 ID, FOR FIND 18, SIZE 2.50 ID
8. CUT SLEEVING LENGTH AS SHOWN
9. AR DENOTES AS REQUIRED
10. STRIP ALL LEADS 30+0.62 DO NOT TIN UNLESS
OTHERWISE SPECIFIED
11. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
12. MIL-I-23053 CLASS I COLOR WHITE 1D, 187 FOR FIND 14
13. SCHEM SUPPLIED WITH FIND 1 TO CUT TO INDICATED LENGTH
WATER ASSEMBLY FIND 15
14. SOLDER PER NDI003071
15. NDI002015, TYPE III WITH Z TYPE TRACK & .003±.001 ALUMINUM FOIL, 1D 1 1/2
16. MIL-I-631 TYPE F, FORM Ua, GRADE a, CLASS I CATEGORY I, COLOR BLACK,
WAG 18
17. FIND 19 MUST BE, CUT TO PROVIDE A SUFFICIENT GROUNDING BRID AT EACH END



SECTION J-J
SCALE NONE



SECTION P-
SCALE NONE



VIEW S-S
SHOWN WITH FIND 15 REMOVED
SCALE NONE

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

[illegible]

ASSEMBLY INFORMATION CHART											
FROM				DESCRIPTION				TO			
REMARKS	COND	IDENT	STA NO.	DES	COLOR	AWG	FIND NO.	STA NO.	DES	REMARKS	
	A1	1	F1-R	WHT	22	9	2	P2-R			
	A2		F1-F					P2-F			
	A3		F1-M					P2-M			
	A4		F1-B					P2-B			
	A5		F1-L					P2-L			
	A6		F1-J					P2-J			
	A7		F1-K					P2-K			
	A8		F1-H					P2-H			
	A9		F1-G					P2-G			
	A10		F1-N					P2-N			
	A11		F1-V					P2-V			
	A12		F1-W					P2-W			
	A13		F1-X					P2-X			
	A14		F1-Y					P2-Y			
	A15		F1-Z					P2-Z			
	A16		F1-A					P2-A			
	A17		F1-B					P2-B			
	A18		F1-C					P2-C			
	A19		F1-D					P2-D			
	A20		F1-E					P2-E			
	A21		F1-F					P2-F			
	A22		F1-G					P2-G			
	A23		F1-H					P2-H			
	A24		F1-I					P2-I			
	A25		F1-J					P2-J			
	A26		F1-K					P2-K			
	A27		F1-L					P2-L			
	A28		F1-M					P2-M			
	A29		F1-N					P2-N			
	A30		F1-O					P2-O			
	A31		F1-P					P2-P			
	A32		F1-Q					P2-Q			
	A33		F1-R					P2-R			
	A34		F1-S					P2-S			
	A35		F1-T					P2-T			
	A36		F1-U					P2-U			
	A37		F1-V					P2-V			
	A38		F1-W					P2-W			
	A39		F1-X					P2-X			
	A40		F1-Y					P2-Y			
	A41		F1-Z					P2-Z			
	A42		F1-A					P2-A			
	A43		F1-B					P2-B			
	A44		F1-C					P2-C			
	A45		F1-D					P2-D			
	A46		F1-E					P2-E			
	A47		F1-F					P2-F			
	A48		F1-G					P2-G			
	A49		F1-H					P2-H			
	A50		F1-I					P2-I			
	A51		F1-J					P2-J			
	A52		F1-K					P2-K			
	A53		F1-L					P2-L			
	A54		F1-M					P2-M			
	A55		F1-N					P2-N			
	A56		F1-O					P2-O			
	A57		F1-P					P2-P			
	A58		F1-Q					P2-Q			
	A59		F1-R					P2-R			
	A60		F1-S					P2-S			
	A61		F1-T					P2-T			
	A62		F1-U					P2-U			
	A63		F1-V					P2-V			
	A64		F1-W					P2-W			
	A65		F1-X					P2-X			
	A66		F1-Y					P2-Y			
	A67		F1-Z					P2-Z			
	A68		F1-A					P2-A			
	A69		F1-B					P2-B			
	A70		F1-C					P2-C			
	A71		F1-D					P2-D			
	A72		F1-E					P2-E			
	A73		F1-F					P2-F			
	A74		F1-G					P2-G			
	A75		F1-H					P2-H			
	A76		F1-I					P2-I			
	A77		F1-J					P2-J			
	A78		F1-K					P2-K			
	A79		F1-L					P2-L			
	A80		F1-M					P2-M			
	A81		F1-N					P2-N			
	A82		F1-O					P2-O			
	A83		F1-P					P2-P			
	A84		F1-Q					P2-Q			
	A85		F1-R					P2-R			
	A86		F1-S					P2-S			
	A87		F1-T					P2-T			
	A88		F1-U					P2-U			
	A89		F1-V					P2-V			
	A90		F1-W					P2-W			
	A91		F1-X					P2-X			
	A92		F1-Y					P2-Y			
	A93		F1-Z					P2-Z			
	A94		F1-A					P2-A			

ASSEMBLY INFORMATION CHART											
FROM				DESCRIPTION				TO			
REMARKS	COND	IDENT	STA NO.	DES	COLOR	AWG	FIND NO.	STA NO.	DES	REMARKS	
	A95	2	P2-E	WHT	22	9	Δ	E94			
	A96		P2-D					E95			
	A97		P2-C					E96			
	A98		P2-B					E97			
	A99	2	P2-A	WHT	22	9		E98			
	A100	Δ	E1	COAX		30	10	E45			
	A101		E2	SHLD				E46			
	A102		E3	COAX				E47			
	A103		E4	COAX				E48			
	A104		E5	COAX				E49			
	A105		E6	COAX				E50			
	A106		E7	SHLD				E51			
	A107		E8	COAX				E52			
	A108		E9	SHLD				E53			
	A109		E10	COAX				E54			
	A110		E11	COAX				E55			
	A111		E12	SHLD				E56			
	A112		E13	COAX				E57			
	A113		E14	SHLD				E58			
	A114		E15	COAX				E59			
	A115		E16	COAX				E60			
	A116		E17	SHLD				E61			
	A117		E18	COAX				E62			
	A118		E19	SHLD				E63			
	A119		E20	COAX				E64			
	A120		E21	COAX				E65			
	A121		E22	SHLD				E66			
	A122		E23	COAX				E67			
	A123		E24	COAX				E68			
	A124		E25	SHLD				E69			
	A125		E26	COAX				E70			
	A126		E27	SHLD				E71			
	A127		E28	SHLD				E72			
	A128		E29	COAX				E73			
	A129		E30	COAX				E74			
	A130		E31	COAX				E75			
	A131		E32	SHLD				E76			
	A132		E33	SHLD				E77			
	A133		E34	SHLD				E78			
	A134		E35	COAX				E79			
	A135		E36	COAX				E80			
	A136		E37	SHLD				E81			
	A137		E38	SHLD				E82			
	A138		E39	SHLD				E83			
	A139		E40	COAX				E84			
	A140		E41	SHLD				E85			
	A141		E42	SHLD				E86			
	A142		E43	SHLD				E87			
	A143		E44	SHLD			30 10 Δ	E88			
	A144	Δ	E1-SHLD	BLK	22	4	1	P1-Y			

ASSEMBLY INFORMATION CHART											
FROM				DESCRIPTION				TO			
REMARKS	COND	STA NO.	DES	COLOR	AWG	FIND NO.	STA NO.	DES	REMARKS		
		A145	E1-SHLD								
		A146	E2	BLK	B2			E3			
		A147	E3					E4			
		A148	E4					E5			
		A149	E5					E6			
		A150	E6					E7			
		A151	E7					E8			
		A152	E8					E9-SHLD			
		A153	E9					P1-Z			
		A154	E10					E11-SHLD			
		A155	E11					E12			
		A156	E12					E13			
		A157	E13					E14			
		A158	E14					E15			
		A159	E15					E17			
		A160	E17					E18			
		A161	E18					E19			
		A162	E19					E20			
		A163	E20					E21			
		A164	E21					E22-SHLD			
		A165	E22					P1-B			
		A166	E23					P1-B			
		A167	E23					E24-SHLD			
		A168	E24					E25			
		A169	E25					E26			
		A170	E26					E27			
		A171	E27					E28			
		A172	E28					E29			
		A173	E29					E30			
		A174	E31					E32			
		A175	E32					E33			
		A176	E33					E34			
		A177	E34					E35			
		A178	E35					E36			
		A179	E36					E37-SHLD			
		A180	E37					P1-A			
		A181	E38					P1-B			
		A182	E39					E39-SHLD			
		A183	E39					E40			
		A184	E40					E41			
		A185	E41					E42			
		A186	E42					E43			
		A187	E43					E44-SHLD			
		A188	E45					P2-Y			
		A189	E45					E46-SHLD			
		A190	E46					E47			
		A191	E47					E48			
		A192	E48					E49			
		A193	E49					E50			
		A194	E50					E51			
		A195	E51					E52			
		A196	E52					E53-SHLD			
		A197	E54					P2-Z			
		A198	E54					E55-SHLD			
		A199	E55					E56			
		A200	E56					E57			
		A201	E57					E58			
		A202	E58					E59			
		A203	E60					E61			
		A204	E61					E62			
		A205	E62					E63			
		A206	E63					E64			
		A207	E64					E65			
		A208	E65					E66-SHLD			
		A209	E66					P2-B			
		A210	E67					P2-BL			
		A211	E67					E68-SHLD			
		A212	E68					E69			
		A213	E69					E70			
		A214	E70					E71			
		A215	E71					E72			
		A216	E72					E73			
		A217	E73					E74			
		A218	E75					E76			
		A219	E76					E77			
		A220	E77					E78			
		A221	E78					E79			
		A222	E79					E80			
		A223	E80					E81-SHLD			
		A224	E81					P2-A			
		A225	E82					P2-B			
		A226	E83					E83-SHLD			
		A227	E83					E84			
		A228	E84					E85			
		A229	E85					E86			
		A230	E86					E87			
		A231	E87					E88-SHLD			

[illegible]

ASSEMBLY INFORMATION CHART										
FROM	DESCRIPTION	TO								
REMARKS	COND	IDENT	STA NO	DES	COLOR	AWG	FIND NO	STA NO	DES	REMARKS
	B1	39	PB-A1	WHT	24	1	37	P3-A1		
	B2		PB-A2							
	B3		PB-A3							
	B4		PB-A4							
	B5		PB-A5							
	B6		PB-A6							
	B7		PB-A7							
	B8		PB-A8							
	B9		PB-A9							
	B10		PB-A10							
	B11		PB-A11							
	B12		PB-A12							
	B13		PB-A13							
	B14		PB-A14							
	B15		PB-A15							
	B16		PB-A16							
	B17		PB-A17							
	B18		PB-A18							
	B19		PB-A19							
	B20		PB-A20							
	B21		PB-A21							
	B22		PB-A22							
	B23		PB-A23							
	B24		PB-A24							
	B25		PB-A25							
	B26		PB-A26							
	B27		PB-A27							
	B28		PB-A28							
	B29		PB-A29							
	B30		PB-A30							
	B31		PB-A31							
	B32		PB-A32							
	B33		PB-A33							
	B34		PB-A34							
	B35		PB-A35							
	B36		PB-A36							
	B37		PB-A37							
	B38		PB-A38							
	B39		PB-A39							
	B40		PB-A40							
	B41		PB-A41							
	B42		PB-A42							
	B43		PB-A43							
	B44		PB-A44							
	B45		PB-A45							
	B46		PB-A46							
	B47		PB-A47							
	B48		PB-A48							
	B49		PB-A49							
	B50		PB-A50							
	B51		PB-A51							
	B52		PB-A52							
	B53		PB-A53							
	B54		PB-A54							
	B55		PB-A55							
	B56		PB-A56							
	B57		PB-A57							
	B58		PB-A58							
	B59		PB-A59							
	B60		PB-A60							
	B61		PB-A61							
	B62		PB-A62							
	B63		PB-A63							
	B64		PB-A64							
	B65		PB-A65							
	B66		PB-A66							
	B67		PB-A67							
	B68		PB-A68							
	B69		PB-A69							
	B70		PB-A70							
	B71		PB-A71							

Δ DENOTES INTERNAL CONNECTION

ASSEMBLY INFORMATION CHART										
FROM	DESCRIPTION	TO								
REMARKS	COND	IDENT	STA NO	DES	COLOR	AWG	FIND NO	STA NO	DES	REMARKS
	B72		PB-C7	WHT	24	1	40	J5-C		
	B73		PB-C8	WHT						
	B74		PB-C9	WHT						
	B75		PB-C10	BLK						
	B76		PB-C11	BLK						
	B77		PB-C12	BLK						
	B78		PB-C13	WHT						
	B79		PB-C14							
	B80		PB-C15							
	B81		PB-C16							
	B82		PB-C17							
	B83		PB-C18							
	B84		PB-C19							
	B85		PB-B1							
	B86		PB-B2							
	B87		PB-B3							
	B88		PB-B4							
	B89		PB-B5							
	B90		PB-B6	WHT	24	1	40	J5-B		
	B91		PB-B7	BLK	22	4				
	B92		PB-B8	BLK	22	4	40	J5-PP		
	B93		PB-A13	WHT	24	1	13	AP-35		
	B94		PB-A14	WHT						
	B95		PB-A15	WHT						
	B96		PB-A16	WHT	24	1	9	AC-67		
	B97		PB-A17							
	B98		PB-A18							
	B99		PB-A19							
	B100		PB-A20							
	B101		PB-A21							
	B102		PB-A22							
	B103		PB-A23							
	B104		PB-A24							
	B105		PB-A25							
	B106		PB-A26							
	B107		PB-A27							
	B108		PB-A28							
	B109		PB-A29							
	B110		PB-A30							
	B111		PB-A31							
	B112		PB-A32							
	B113		PB-A33							
	B114		PB-A34							
	B115		PB-A35							
	B116		PB-A36							
	B117		PB-A37							
	B118		PB-A38							
	B119		PB-A39							
	B120		PB-A40							
	B121		PB-A41							
	B122		PB-A42							
	B123		PB-A43							
	B124		PB-A44							
	B125		PB-A45							
	B126		PB-A46							
	B127		PB-A47							
	B128		PB-A48							
	B129		PB-A49							
	B130		PB-A50							
	B131		PB-A51							
	B132		PB-A52							
	B133		PB-A53							
	B134		PB-A54							
	B135		PB-A55							
	B136		PB-A56							
	B137		PB-A57							
	B138		PB-A58							
	B139		PB-A59							
	B140		PB-A60							
	B141		PB-A61							
	B142		PB-A62							
	B143		PB-A63							
	B144		PB-A64							
	B145		PB-A65							
	B146		PB-A66							
	B147		PB-A67							
	B148		PB-A68							
	B149		PB-A69							
	B150		PB-A70							
	B151		PB-A71							
	B152		PB-A72							

THWIST

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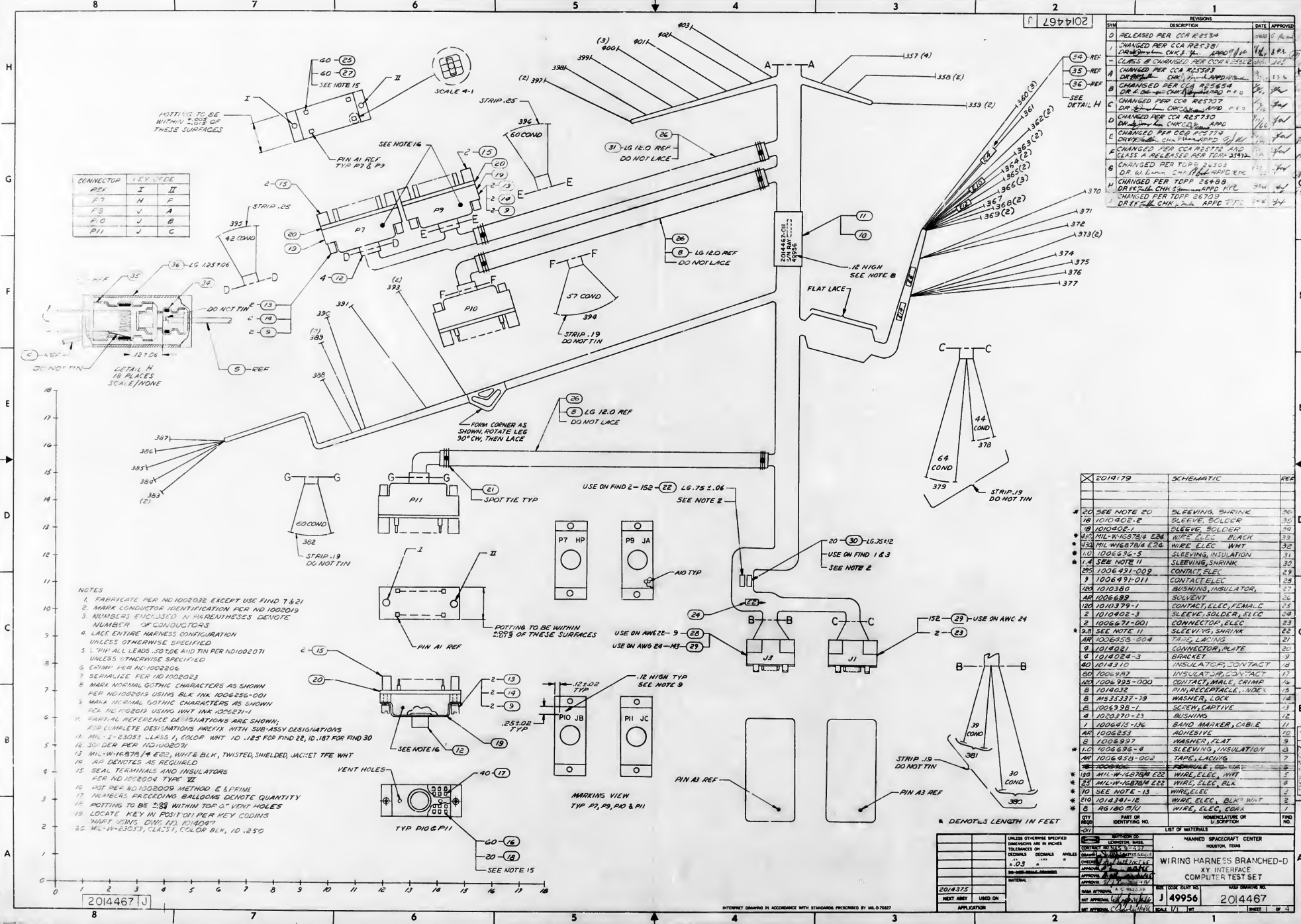
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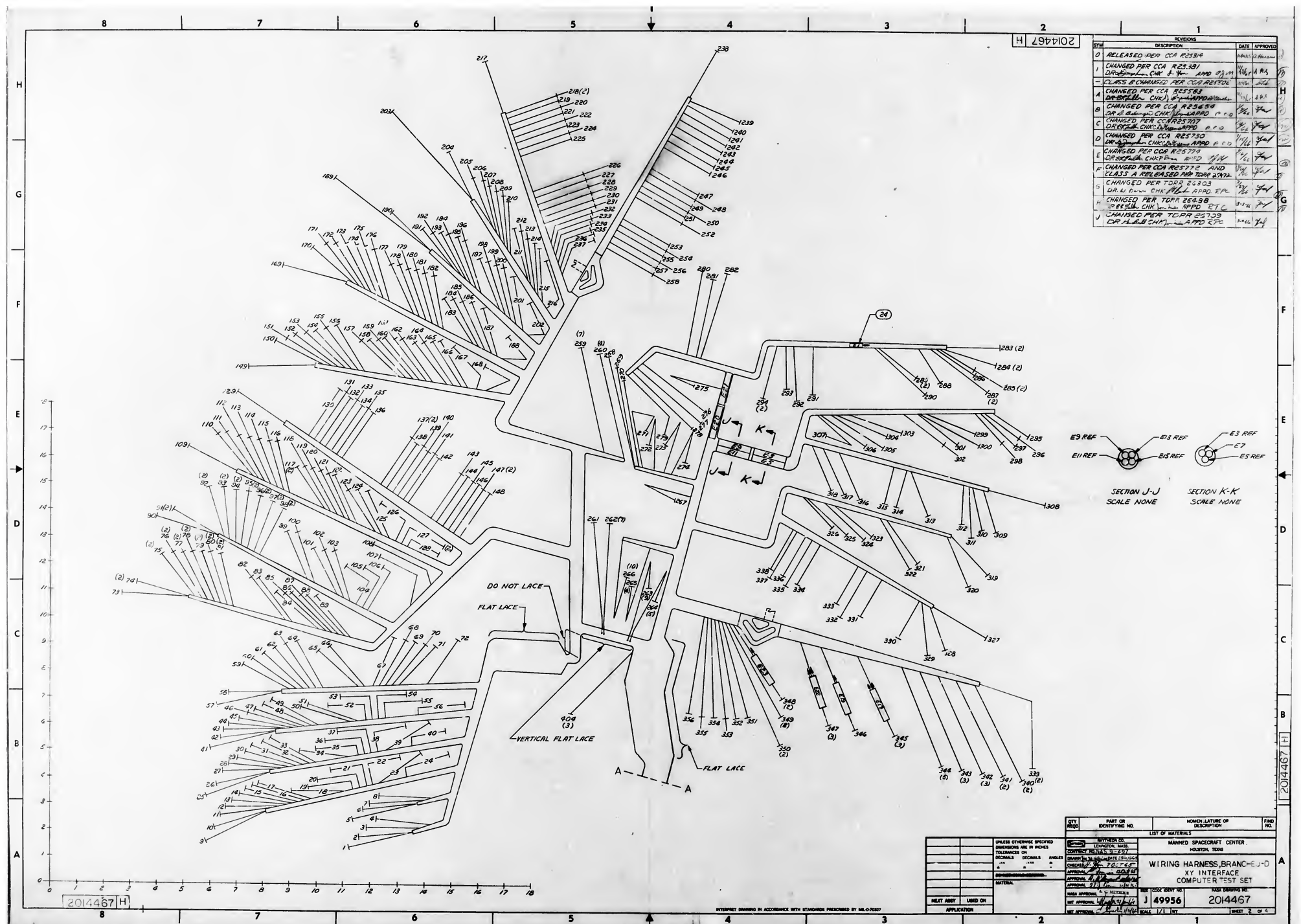
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REVISIONS		DATE	BY
1	RELEASED PER CCA 425443	1/1/71	1/1/71
2	CHANGED PER CCA 425443	1/1/71	1/1/71
3	CLASS B NO CHANGE PER CCA 425443	1/1/71	1/1/71
4	CHANGED PER CCA 425443	1/1/71	1/1/71
5	CLASS B RELEASED PER CCA 425443	1/1/71	1/1/71

CITY		PART ON IDENTIFYING NO		NOMENCLATURE OR DESIG. YTD		UNIT
2014466		49956 J		2014466		1
LIST OF MATERIALS						
WIRING HARNESS BRANCHED						
COMPUTER TEST SET						
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE DECIMALS ANGLES						
DO NOT SCALE DRAWING MATERIAL						
NEXT ABST USED ON APPLICATION						





2014467

ASSEMBLY INFORMATION CHART											
FROM			DESCRIPTION			TO			REMARKS		
REMARKS	COND IDENT	STA NO.	DES	COLOR	ANG	FIN NO.	STA NO.	DES	REMARKS		
	D1	375	U1-A3	WHT	24	32	361	U1-A3			
			-A0	BLK				-A0			
			-A5	WHT				-A5			
			-A6	BLK				-A6			
			-B1	WHT				-B1			
			-B2	BLK			361	U1-A3			
			-B3	WHT			395	P7-C5			
			-B4	BLK				-B4			
			-B5	WHT				-B5			
			-B6	BLK				-B6			
			-C1	WHT				-C1			
			-C2	BLK			395	P7-C4			
			-C3	WHT			32	23	S3A-6		
			-C4	BLK			35	47	S3B-6		
			-C5	WHT			32	31	S3C-6		
			-C6	BLK			33	15	S3D-6		
			-C7	WHT			32	30	S3E-7		
			-C8	BLK			33	48	S3F-7		
			-C9	WHT			32	32	S3G-7		
			-D1	WHT			32	16	S3H-7		
			-D2	BLK			32	65	S3I-8		
			-D3	WHT			33	49	S3J-8		
			-D4	BLK			32	33	S3K-9		
			-D5	WHT			33	17	S3L-9		
			-D6	BLK			32	36	S3M-11		
			-D7	WHT			33	20	S3N-11		
			-D8	BLK			32	68	S3O-11		
			-D9	WHT			33	52	S3P-11		
			-E1	WHT			32	37	S3Q-12		
			-E2	BLK			33	21	S3R-12		
			-E3	WHT			32	69	S3S-12		
			-E4	BLK			33	33	S3T-12		
			-E5	WHT			32	30	S3U-9		
			-E6	BLK			33	10	S3V-9		
			-E7	WHT			32	66	S3W-9		
			-E8	BLK			33	50	S3X-9		
			-E9	WHT			32	35	S3Y-10		
			-F1	WHT			33	19	S3Z-10		
			-F2	BLK			32	67	S3A-10		
			-F3	WHT			33	27	S3B-10		
			-F4	BLK			32	51	S3C-10		
			-F5	WHT			33	39	S3D-10		
			-F6	BLK			32	71	S3E-11		
			-F7	WHT			33	55	S3F-11		
			-F8	BLK			32	38	S3G-13		
			-F9	WHT			33	22	S3H-13		
			-G1	WHT			32	39	S3I-13		
			-G2	BLK			33	23	S3J-14		
			-G3	WHT			32	40	S3K-15		
			-G4	BLK			33	24	S3L-15		
			-G5	WHT			32	72	S3M-15		
			-G6	BLK			33	56	S3N-15		
			-G7	WHT			32	39	P7-A1		
			-G8	BLK			2		-G8		
			-H1	WHT			2		-H1		
			-H2	BLK			395	P7-E4			
			-H3	WHT			32	71	S3A-14		
			-H4	BLK			33	55	S3B-14		
			-H5	WHT			32	38	S3C-15		
			-H6	BLK			33	22	S3D-13		
			-H7	WHT			32	39	S3E-14		
			-H8	BLK			33	23	S3F-14		
			-H9	WHT			32	40	S3G-15		
			-H10	BLK			33	24	S3H-15		
			-H11	WHT			32	72	S3I-15		
			-H12	BLK			33	56	S3J-15		
			-H13	WHT			2		-H13		
			-H14	BLK			2		-H14		
			-H15	WHT			2		-H15		
			-H16	BLK			2		-H16		
			-H17	WHT			2		-H17		
			-H18	BLK			395	P7-A6			
			-H19	WHT			32	20	S3A-13		
			-H20	BLK			33	54	S3B-13		
			-H21	WHT			2		-H21		
			-H22	BLK			395	P7-B1			
			-H23	WHT			2		-H23		
			-H24	BLK			2		-H24		
			-H25	WHT			2		-H25		
			-H26	BLK			395	P7-A6			
			-H27	WHT			32	20	S3A-13		
			-H28	BLK			33	54	S3B-13		
			-H29	WHT			2		-H29		
			-H30	BLK			395	P7-B1			
			-H31	WHT			2		-H31		
			-H32	BLK			2		-H32		
			-H33	WHT			2		-H33		
			-H34	BLK			395	P7-B1			
			-H35	WHT			2		-H35		
			-H36	BLK			2		-H36		
			-H37	WHT			2		-H37		
			-H38	BLK			395	P7-B1			
			-H39	WHT			2		-H39		
			-H40	BLK			2		-H40		
			-H41	WHT			2		-H41		
			-H42	BLK			395	P7-B1			
			-H43	WHT			2		-H43		
			-H44	BLK			2		-H44		
			-H45	WHT			2		-H45		
			-H46	BLK			395	P7-B1			
			-H47	WHT			2		-H47		
			-H48	BLK			2		-H48		
			-H49	WHT			2		-H49		
			-H50	BLK			395	P7-B1			
			-H51	WHT			2		-H51		
			-H52	BLK			2		-H52		
			-H53	WHT			2		-H53		
			-H54	BLK			395	P7-B1			
			-H55	WHT			2		-H55		
			-H56	BLK			2		-H56		
			-H57	WHT			2		-H57		
			-H58	BLK			395	P7-B1			
			-H59	WHT			2		-H59		
			-H60	BLK			2		-H60		
			-H61	WHT			2		-H61		
			-H62	BLK			395	P7-B1			
			-H63	WHT			2		-H63		
			-H64	BLK			2		-H64		
			-H65	WHT			2		-H65		
			-H66	BLK			395	P7-B1			
			-H67	WHT			2		-H67		
			-H68	BLK			2		-H68		
			-H69	WHT			2		-H69		
			-H70	BLK			395	P7-B1			
			-H71	WHT			2		-H71		
			-H72	BLK			2		-H72		
			-H73	WHT			2		-H73		
			-H74	BLK			395	P7-B1			
			-H75	WHT			2		-H75		
			-H76	BLK			2		-H76		
			-H77	WHT			2		-H77		
			-H78	BLK			395	P7-B1			
			-H79	WHT			2		-H79		
			-H80	BLK			2		-H80		
			-H81	WHT			2		-H81		
			-H82	BLK			395	P7-B1			
			-H83	WHT			2		-H83		
			-H84	BLK			2		-H84		
			-H85	WHT			2		-H85		
			-H86	BLK			395	P7-B1			
			-H87	WHT			2		-H87		
			-H88	BLK			2		-H88		
			-H89	WHT			2		-H89		
			-H90	BLK			395	P7-B1			
			-H91	WHT			2		-H91		
			-H92	BLK			2		-H92		
			-H93	WHT			2		-H93		
			-H94	BLK			395	P7-B1			
			-H95	WHT			2		-H95		
			-H96	BLK			2		-H96		
			-H97	WHT			2		-H97		
			-H98	BLK			395	P7-B1			
			-H99	WHT			2		-H99		
			-H100	BLK			2		-H100		

ASSEMBLY INFORMATION CHART											
FROM			DESCRIPTION				TO			REMARKS	
REMARKS	COND IDENT	STA NO.	DES	COLOR	ANG	FIN NO.	STA NO.	DES			
	D68	379	U1-U7	WHT	24	32	62	S3A-5			
	D69		-U8	BLK		38	46	S3B-5			TWIST
	D70		-U1	WHT		32	26	S3C-1			
	D71		-U2	BLK		33	10	S3D-1			
	D72		-U3	WHT		32	59	S3E-2			
	D73		-U4	BLK		33	43	S3F-2			
	D74		-U5	WHT		32	27	S3G-2			
	D75		-U6	BLK		33	11	S3H-2			
	D76		-U7	WHT		32	60	S3I-3			
	D77		-U8	BLK		33	44	S3J-3			TWIST
	D78		-U9	WHT		2	395	P7-C1			
			-U10	BLK		2		-C18			
	D79		-U11	WHT		2		-C19			
			-U12	BLK		2		-C19			
	D80		-U13	WHT		2		-C19			
			-U14	BLK		2	395	P7-C16			
	D81		-U15	WHT		32	68	S3B-1			TWIST
	D82		-U16	BLK		32	62	S3B-1			
	D83		-U17	WHT		2	396	P7-C9			
			-U18	BLK		2		P7-C10			
	D84		-U19	WHT		2		P7-C11			
		379	U1-U6	BLK			396	P7-C12			
	D85	381	U3-U5	WHT			382	P11-C3			
			-G2	BLK				-C6			
			-G3	WHT				-C7			
	D86		-G4	BLK				-C8			
			-G5	WHT				-C9			
	D87		-H1	WHT				-C10			
			-H2	BLK				-C11			
	D88		-H3	WHT				-C12			
			-H4	BLK				-C13			
	D89		-J1	WHT				-B1			
			-J2	BLK				-B2			
	D90		-J3	WHT				-B3			
			-J4	BLK				-B4			
	D91		-K1	WHT				-B7			
			-K2	BLK				-B8			
	D92		-K3	WHT				-B9			
			-K4	BLK				-B10			
	D93		-L1	WHT				-B11			
			-L2	BLK				-B12			
	D94		-M1	WHT				-B15			
			-M2	BLK				-B16			
	D95		-M3	WHT				-B17			
			-M4	BLK				-B18			
	D96		-N1	WHT				-B19			
		361	-N2	BLK				-B20			
	D97	380	-S1	WHT				-C9			
			-S2	BLK				-C10			
	D98		-S3	WHT				-C11			
			-S4	BLK				-C12			
	D99		-T1	WHT				-C17			
			-T2	BLK				-C18			
	D100		-T5	WHT				-C19			
		380	-T6	BLK				-C20			
	D101	381	-V5	WHT				-B11			
		381	-A6	BLK				-B12			
	D102	380	-U1	WHT				-A1			
			-V2	BLK				-A2			
	D103		-V3	WHT				-A3			
			-V4	BLK				-A4			
	D104		-V5	WHT		24	33	C10			
			-V6	BLK				-A6			
	D105		-V7	WHT				-A7			
			-V8	BLK				-A8			
	D106		-W1	WHT				-A9			
			-W2	BLK				-A10			
	D107		-W3	WHT				-A11			
			-W4	BLK				-A12			
	D108		-W5	WHT				-A13			
			-W6	BLK				-A14			
	D109		-W7	WHT				-A15			
			-W8	BLK				-A16			
	D110		-X3	WHT				-C1			
			-X4	BLK				-C2			
	D111		-X5	WHT			2	-C3			
		380	-X6	BLK	24			-C4			
	D112	381	-Y1	BLK	22	4		-A17			
	D113		-Y2	WHT		5		-A18			
	D114		-Z1	BLK				-A19			
	D115	381	-Z2	WHT				-A20			
	D116	380	-Z3	BLK				-B5			
	D117	380	U8-U9	WHT	22	5	382	P11-B6			
	D118	396	P9-A1	WHT	24	32	194	S10-12			TWIST
	D119	396	P9-A2	BLK	24	33	195	S10-13			
	D120		-A3	WHT	24	32	195	S10-13			TWIST
	D121	396	P9-A3	BLK	24	33	209	S10-13			

ASSEMBLY INFORMATION CHART

REMARKS	FROM		DESCRIPTION				TO		REMARKS	
	COND IDENT	STA NO.	DES	COLOR	AVG	FINO NO.	STA NO.	DES		
	D137	394	P10-B	BLK	24		2	340	S30A-C	
				BWO	WNT			340	S30A-D	
	D196			B11	BLK			339	S30A-C	
				B12	WNT			339	S30A-D	
	D199			B15	WNT			339	S30A-C	
				B16	BLK			362	S30B-C	
	D201			C1	BLK			362	S30B-D	
				C2	WNT			360	S30B-C	
	D2			C3	WNT			343	JIC	
				D4	BLK			343	MD-600	
	D204			C5	WNT			350	J11	
				C6	BLK			350	W1-600	
	D205			C15	WNT			357	S30A-C	
	D206			C16	BLK			357	S30A-D	
	D207			C17	WNT			263	S30A-C	
				C18	BLK	24	2	263	S30A-D	
	D211			H13	WNT	22	5	404	S4-C	
	D212			B14				263	S30A-D	
	D213			B17				262	S30C-C	
	D214			B18				262	S30A-D	
	D215			B19				262	S30A-D	
	D216			C7				397	S2A-A0	
	D217			C8				398	S30A-A0	
	D218			C9				399	S30A-A0	
	D219			C10				397	S30A-C	
	D220			C11				100	S30A-D	
	D221			C12				101	S3A-A0	
	D222			C13				102	S32A-A0	
	D223			C14				103	S33A-A0	
	D24	394	P10-B	WNT	22	5	342	S30A-D		
	D29	34	S32	WNT	24	2	342	S30A-D		
	D290	75	S2F-3	BLK			33	240	S1F-2	TWIST
	D291	93	S2F-3	WNT			32	226	S1C-3	
	D292	76	S2F-3	BLK			33	241	S1F-3	
	D293	94	S2F-4	WNT			32	221	S1E-4	
	D294	77	S2F-4	BLK			33	242	S1F-4	
	D295	95	S2F-5	WNT			32	223	S1E-5	
	D296	78	S2F-5	BLK			33	243	S1F-5	
	D297	96	S2F-6	WNT			32	223	S1E-6	
	D298	79	S2F-6	BLK			33	244	S1F-6	
	D299	97	S2F-7	WNT			32	224	S1E-7	
	D300	80	S2F-7	BLK			33	245	S1F-7	
	D301	98	S2F-8	WNT			32	225	S1E-8	
	D302	81	S2F-8	BLK			33	246	S1F-8	
	D303	99	S2F-13	WNT			32	230	S1E-13	
	D304	82	S2F-13	BLK			33	251	S1F-13	
	D305	100	S2F-14	WNT			32	231	S1E-14	
	D306	83	S2F-14	BLK			33	252	S1F-14	
	D307	101	S2F-15	WNT			32	233	S1E-15	
	D308	84	S2F-15	BLK			33	253	S1F-15	
	D309	102	S2F-16	WNT			32	233	S1E-16	
	D310	85	S2F-16	BLK			33	254	S1F-16	
	D311	103	S2F-17	WNT			32	234	S1E-17	
	D312	86	S2F-17	BLK			33	255	S1F-17	
	D313	104	S2F-18	WNT			32	235	S1E-18	
	D314	87	S2F-18	BLK			33	256	S1F-18	
	D315	105	S2F-19	WNT			32	236	S1E-19	
	D316	88	S2F-19	BLK			33	257	S1F-19	
	D317	106	S2F-20	WNT			32	237	S1E-20	
	D318	89	S2F-20	BLK			33	258	S1F-20	
	D319	110	S2A-2	WNT			32	150	S1A-2	
	D320	110	S2B-2	BLK			33	170	S1B-2	
	D321	131	S2A-3	WNT			32	171	S1A-3	
	D322	111	S2B-3	BLK			33	171	S1B-3	
	D323	142	S2A-4	WNT			32	152	S1A-4	
	D324	112	S2B-4	BLK			33	172	S1B-4	
	D325	133	S2A-5	WNT			32	153	S1A-5	
	D326	113	S2B-5	BLK			33	173	S1B-5	
	D327	134	S2A-6	WNT			32	154	S1A-6	
	D328	114	S2B-6	BLK			33	174	S1B-6	
	D329	135	S2A-7	WNT			32	155	S1A-7	
	D330	115	S2B-7	BLK			33	175	S1B-7	
	D331	136	S2A-8	WNT			32	156	S1A-8	
	D332	116	S2B-8	BLK			33	176	S1B-8	
	D333	137	S2A-9	WNT			32	157	S1A-9	
	D334	117	S2B-9	BLK	24	30	177	51B-9		TWIST
	D345	351	B-1	WNT	22	5	303	R1-ARM		
		352					304	R2-ARM		
	D351	353					305	R3-ARM		
	D352	354					306	R4-ARM		
	D353	355					307	R5-ARM		
	D37	353	S10-ARM				390	S2-ARM		
	D2	391	A2-A				74	S2F-A		
	D212	74	S2F-1				91	S2E-1		
	D225	91	S2E-2				92	S2E-2		
	D274	218	S1A-1	WNT	22	5	239	S1F-1		

ASSEMBLY INFORMATION CHART

FROM				DESCRIPTION				TO				REMARKS	
REMARKS	CONV	IDEN	STA	NO	DES	COLOR	ANG	FIND	NO	STA	NO		DES
	D225	136	52A-10	NHT	24	32	159	51A-10					
	D276	116	52B-10	BLK		33	178	53B-10					TWIST
	D277	139	52A-11	NHT		32	159	53A-11					
	D278	118	52A-11	NHT		33	178	53B-11					
	D279	140	52A-12	NHT		32	160	51A-12					
	D280	120	52B-12	BLK		33	180	51B-12					
	D281	137	52A-9	NHT		32	262	52A-10					
	D282	117	52B-9	BLK		33	262	52B-10					
	D283	141	52A-10	NHT		32	161	51A-11					
	D284	121	52B-10	BLK		33	181	51B-11					
	D285	142	52A-11	NHT		32	162	51A-11					
	D286	122	52B-11	BLK		33	182	51B-11					
	D287	143	52A-12	NHT		32	163	51A-12					
	D288	123	52B-12	BLK		33	183	51B-12					
	D289	144	52A-13	NHT		32	164	51A-13					
	D290	124	52B-13	BLK		33	184	51B-13					
	D291	145	52A-14	NHT		32	165	51A-14					
	D292	125	52B-14	BLK		33	185	51B-14					
	D293	146	52A-15	NHT		32	166	51A-15					
	D294	126	52B-15	BLK		33	186	51B-15					
	D295	147	52A-16	NHT		32	167	51A-16					
	D296	127	52B-16	BLK		33	187	51B-16					
	D297	148	52A-17	NHT		32	168	51A-17					
	D298	128	52B-17	BLK		33	188	51B-17					
	D299	149	52A-18	NHT		32	169	51A-18					
	D300	129	52B-18	BLK		33	189	51B-18					
	D301	169	52A-19	NHT		33	276	54C-1					
	D302	129	52A-19	NHT		32	267	57A-1					
	D302	109	52B-19	BLK		33	270	57C-1					
	D303	282	52A-1A	NHT		32	294	57B-1					TWIST
	D303	272	54C-1	BLK		33	278	57B-1					
	D305	333	57B-1B	NHT		2	259	55B-C					
	D305	330	57B-C	BLK		2	259	55A-C					
	D306	260	56A-C	NHT		2	294	55A-A7					
	D306	260	56A-C	BLK		2	293	55A-B7					
	D307	294	55A-A7	NHT		32	317	57A-1					
	D308	293	55A-B7	BLK		33	305	56A-A4					TWIST
	D309	274	57A-A	NHT		39	331	57B-B1					
	D310	271	57C-A	BLK		33	328	57B-C1					TWIST
	D311	336	57B-1B	NHT		2	265	58B-C					
	D311	336	57B-1B	BLK		2	265	58A-C					
	D312	282	55A-1C	NHT		33	288	55A-B5					
	D312	282	55A-1C	BLK		33	288	55A-B5					TWIST
	D313	266	55A-C	BLK		33	294	55A-B2					
	D314	293	55A-A6	NHT		32	313	55A-B4					
	D315	284	55A-B5	BLK		33	300	56B-B4					
	D316	318	56A-A3	NHT		32	360	A3-B					
	D317	306	56B-A2	BLK		33	360						
	D318	308	56A-A3	NHT		32	364	A					
	D319	309	56B-A3	BLK		33	364	A					
	D320	309	56A-AA	NHT		32	368	B					
	D321	295	56B-AA	BLK		33	368	B					
	D322	302	56A-AA	NHT		32	368	A					
	D323	301	56A-B2	BLK		33	362	11					
	D324	315	56A-B3	NHT		32	366	A					20
	D325	302	56A-B3	BLK		33	366	A3-B					
	D326	316	56B-C4	NHT		32	293	55A-B6					TWIST
	D327	305	56B-C4	BLK		33	293	55A-B6					
	D328	224	56A-1A	NHT		2	262	A3-B					
	D328	224	56A-1A	BLK		2	262	A3-B					
	D329	260	56A-1B	NHT		2	223	A3-B					
	D329	260	56A-1B	BLK		2	223	A3-B					
	D330	261	56B-1B	NHT		2	224	A3-B					
	D330	261	56B-1B	BLK		2	224	A3-B					
	D331	266	55D-10	BLK	22	4	259	55D-10					
	D332	266	55D-10	NHT	22	5	259	55D-10					
	D333	266	55D-10	BLK	22	5	259	55D-10					
	D334	304	56D-C4	NHT		34	349	1B-B2					
	D335	373	A3-30			341	1B-B2						
	D337	292	56A-1A	NHT	22	5	345	A3-B					
	D338	E3	COAX			1	A4	1A-10					SEE D338
	D339	E4	NHT	22	5	361	A3-B						
	D340	E3	NHT	22	5	310	54A-02						
	D341	E5	COAX			1	A6						SEE D333
	D342	E5	NHT	22	5	312	54A-03						
	D343	E6	NHT	22	5	367	A3-B1						
	D344	E7	COAX			1	A7						
	D345	E7	COAX			1	A8						SEE D330A3
	D345	E8	NHT	22	5	311	A4-B						
	D346	E8	NHT	22	5	347	A4-B						

▲ DENOTES EXTERNAL CONNECTION

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ASSEMBLY INFORMATION CHART

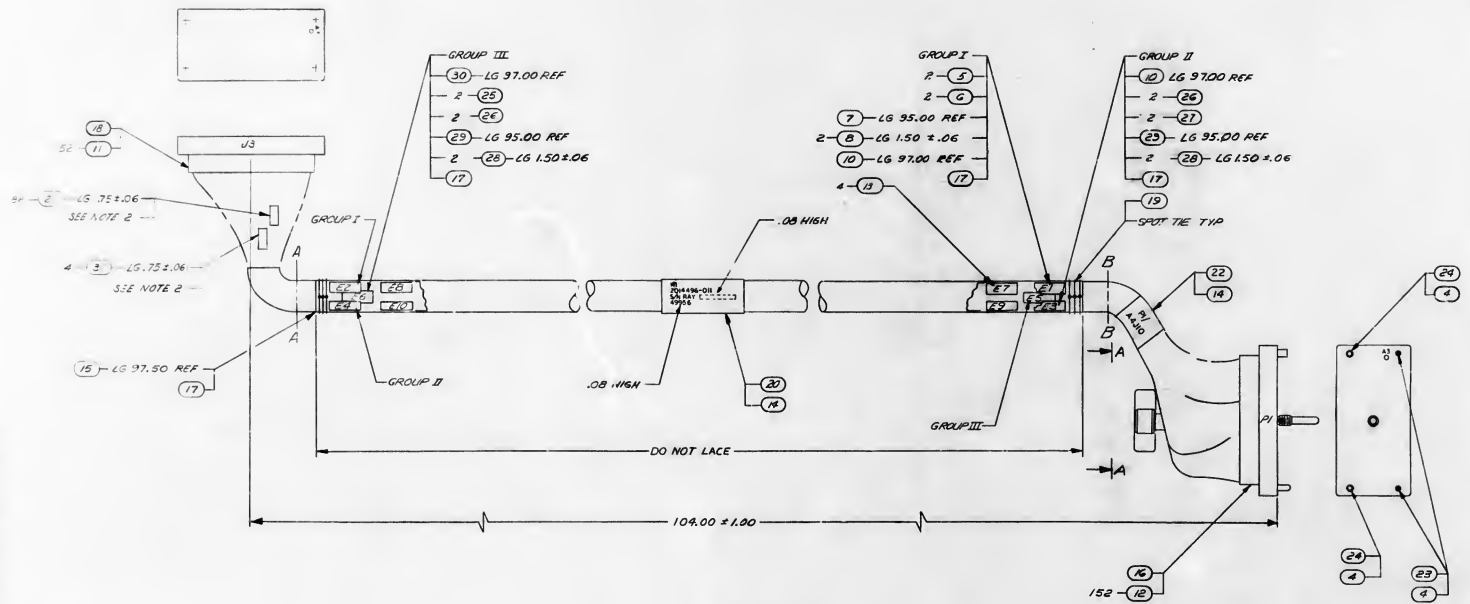
REMARKS	FROM			DESCRIPTION			TO			REMARKS
	COND	IDENT	STA NO	DES	COLOR	ANG	FIND NO	STA NO	DES	
▲			D347	▲	E9	COAX	1	▲	E10	
▲			D348		E9-SHLD	SHLD		▲	E10-SHLD	SEE D395
▲			D349		E9	WNT	22	5	296	516-02
▲			D350		E11	COAX	22	5	293	A3-12
▲			D351		E11-SHLD	SHLD	1	▲	E12-SHLD	SEE D396
▲			D352		E12	WNT	22	5	365	A3-17
▲			D353		E13	COAX	22	5	299	516-03
▲			D354		E13-SHLD	SHLD		▲	E14-SHLD	SEE D397
▲			D355		E14	WNT	22	5	312	A3-15
▲			D356		E15	COAX	22	5	299	516-04
▲			D357		E15-SHLD	SHLD	1	▲	E16-SHLD	SEE D390
▲			D358		E15	WNT	22	5	297	516-05
▲			D359		E16	WNT	22	5	348	J9
▲			D360		E16-SHLD	SHLD	1	▲	E17	▲
▲			D361		E17	WNT	22	5	345	J6
▲			D362		E17-SHLD	SHLD		▲	E18	▲
▲			D363		E18	WNT	22	5	296	516-06
▲			D364		E19	WNT	22	5	346	J7
▲			D365		E19-SHLD	SHLD	2	▲	E20-SHLD	▲
▲			D366		E20	WNT	22	5	296	516-07
▲			D367		E21	WNT	22	5	291	516-08
▲			D368		E21-SHLD	SHLD	2	▲	E22-SHLD	▲
▲			D369		E22	WNT	22	5	290	516-09
▲			D370		E23	WNT	22	5	287	516-10
▲			D371		E23-SHLD	SHLD	2	▲	E24-SHLD	▲
▲			D372		E24	WNT	22	5	279	51-03
▲			D373		E25	WNT	22	5	280	51-04
▲			D374		E25-SHLD	SHLD	2	▲	E26-SHLD	▲
▲			D375		E26	WNT	22	5	278	51-05
▲			D376		E27	WNT	22	5	279	51-06
▲			D377		E27-SHLD	SHLD	2	▲	E28-SHLD	▲
▲			D378		E28	WNT	22	5	273	51-07
▲			D379		E29	WNT	22	5	274	51-08
▲			D380		E29-SHLD	SHLD	2	▲	E30-SHLD	▲
▲			D381		E30	WNT	22	5	275	51-09
▲			D382		E31	WNT	22	5	276	51-10
▲			D383		E31-SHLD	SHLD	2	▲	E32-SHLD	▲
▲			D384		E32	WNT	22	5	277	51-11
▲			D385		E33	WNT	22	5	278	51-12
▲			D386		E33-SHLD	SHLD	2	▲	E34-SHLD	▲
▲			D387		E34	WNT	22	5	279	51-13
▲			D388		E35	WNT	22	5	280	51-14
▲			D389		E35-SHLD	SHLD	2	▲	E36-SHLD	▲
▲			D390		E36	WNT	22	5	281	51-15
▲			D391		E37	WNT	22	5	282	51-16
▲			D392		E37-SHLD	SHLD	2	▲	E38-SHLD	▲
▲			D393		E38	WNT	22	5	283	51-17
▲			D394		E39	WNT	22	5	284	51-18
▲			D395		E39-SHLD	SHLD	2	▲	E40-SHLD	▲
▲			D396		E40	WNT	22	5	285	51-19
▲			D397		E41	WNT	22	5	286	51-20
▲			D398		E41-SHLD	SHLD	2	▲	E42-SHLD	▲
▲			D399		E42	WNT	22	5	287	51-21
▲			D400		E42-SHLD	SHLD	2	▲	E43-SHLD	▲
▲			D401		E43	WNT	22	5	288	51-22
▲			D402		E43-SHLD	SHLD	2	▲	E44-SHLD	▲
▲			D403		E44	WNT	22	5	289	51-23
▲			D404		E44-SHLD	SHLD	2	▲	E45-SHLD	▲
▲			D405		E45	WNT	22	5	290	51-24
▲			D406		E45-SHLD	SHLD	2	▲	E46-SHLD	▲
▲			D407		E46	WNT	22	5	291	51-25
▲			D408		E46-SHLD	SHLD	2	▲	E47-SHLD	▲
▲			D409		E47	WNT	22	5	292	51-26
▲			D410		E47-SHLD	SHLD	2	▲	E48-SHLD	▲
▲			D411		E48	WNT	22	5	293	51-27
▲			D412		E48-SHLD	SHLD	2	▲	E49-SHLD	▲
▲			D413		E49	WNT	22	5	294	51-28
▲			D414		E49-SHLD	SHLD	2	▲	E50-SHLD	▲
▲			D415		E50	WNT	22	5	295	51-29
▲			D416		E50-SHLD	SHLD	2	▲	E51-SHLD	▲
▲			D417		E51	WNT	22	5	296	51-30
▲			D418		E51-SHLD	SHLD	2	▲	E52-SHLD	▲
▲			D419		E52	WNT	22	5	297	51-31
▲			D420		E52-SHLD	SHLD	2	▲	E53-SHLD	▲
▲			D421		E53	WNT	22	5	298	51-32
▲			D422		E53-SHLD	SHLD	2	▲	E54-SHLD	▲
▲			D423		E54	WNT	22	5	299	51-33
▲			D424		E54-SHLD	SHLD	2	▲	E55-SHLD	▲
▲			D425		E55	WNT	22	5	300	51-34
▲			D426		E55-SHLD	SHLD	2	▲	E56-SHLD	▲
▲			D427		E56	WNT	22	5	301	51-35
▲			D428		E56-SHLD	SHLD	2	▲	E57-SHLD	▲
▲			D429		E57	WNT	22	5	302	51-36
▲			D430		E57-SHLD	SHLD	2	▲	E58-SHLD	▲
▲			D431		E58	WNT	22	5	303	51-37
▲			D432		E58-SHLD	SHLD	2	▲	E59-SHLD	▲
▲			D433		E59	WNT	22	5	304	51-38
▲			D434		E59-SHLD	SHLD	2	▲	E60-SHLD	▲
▲			D435		E60	WNT	22	5	305	51-39
▲			D436		E60-SHLD	SHLD	2	▲	E61-SHLD	▲
▲			D437		E61	WNT	22	5	306	51-40
▲			D438		E61-SHLD	SHLD	2	▲	E62-SHLD	▲
▲			D439		E62	WNT	22	5	307	51-41
▲			D440		E62-SHLD	SHLD	2	▲	E63-SHLD	▲
▲			D441		E63	WNT	22	5	308	51-42
▲			D442		E63-SHLD	SHLD	2	▲	E64-SHLD	▲
▲			D443		E64	WNT	22	5	309	51-43
▲			D444		E64-SHLD	SHLD	2	▲	E65-SHLD	▲
▲			D445		E65	WNT	22	5	310	51-44
▲			D446		E65-SHLD	SHLD	2	▲	E66-SHLD	▲
▲			D447		E66	WNT	22	5	311	51-45
▲			D448		E66-SHLD	SHLD	2	▲	E67-SHLD	▲
▲			D449		E67	WNT	22	5	312	51-46
▲			D450		E67-SHLD	SHLD	2	▲	E68-SHLD	▲
▲			D451		E68	WNT	22	5	313	51-47
▲			D452		E68-SHLD	SHLD	2	▲	E69-SHLD	▲
▲			D453		E69	WNT	22	5	314	51-48
▲			D454		E69-SHLD	SHLD	2	▲	E70-SHLD	▲
▲			D455		E70	WNT	22	5	315	51-49
▲			D456		E70-SHLD	SHLD	2	▲	E71-SHLD	▲
▲			D457		E71	WNT	22	5	316	51-50
▲			D458		E71-SHLD	SHLD	2	▲	E72-SHLD	▲
▲			D459		E72	WNT	22	5	317	51-51
▲			D460		E72-SHLD	SHLD	2	▲	E73-SHLD	▲
▲			D461		E73	WNT	22	5	318	51-52
▲			D462		E73-SHLD	SHLD	2	▲	E74-SHLD	▲
▲			D463		E74	WNT	22	5	319	51-53
▲			D464		E74-SHLD	SHLD	2	▲	E75-SHLD	▲
▲			D465		E75	WNT	22	5	320	51-54
▲			D466		E75-SHLD	SHLD	2	▲	E76-SHLD	▲
▲			D467		E76	WNT	22	5	321	51-55
▲			D468		E76-SHLD	SHLD	2	▲	E77-SHLD	▲
▲			D469		E77	WNT	22	5	322	51-56
▲			D470		E77-SHLD	SHLD	2	▲	E78-SHLD	▲
▲			D471		E78	WNT	22	5	323	51-57
▲			D472		E78-SHLD	SHLD	2	▲	E79-SHLD	▲
▲			D473		E79	WNT	22	5	324	51-58
▲			D474		E79-SHLD	SHLD	2	▲	E80-SHLD	▲
▲			D475		E80	WNT	22	5	325	51-59
▲			D476		E80-SHLD	SHLD	2	▲	E81-SHLD	▲
▲			D477		E81	WNT	22	5	326	51-60
▲			D478		E81-SHLD	SHLD	2	▲	E82-SHLD	▲
▲			D479		E82	WNT	22	5	327	51-61
▲			D480		E82-SHLD	SHLD	2	▲	E83-SHLD	▲
▲			D481		E83	WNT	22	5	328	51-62
▲			D482		E83-SHLD	SHLD	2	▲	E84-SHLD	▲
▲			D483		E84	WNT	22	5	329	51-63
▲			D484		E84-SHLD	SHLD	2	▲	E85-SHLD	▲
▲			D485		E85	WNT	22	5	330	51-64
▲			D486		E85-SHLD	SHLD	2	▲	E86-SHLD	▲
▲			D487		E86	WNT	22	5	331	51-65
▲			D488		E86-SHLD	SHLD	2	▲	E87-SHLD	▲
▲			D489		E87	WNT	22	5	332	51-66
▲			D490		E87-SHLD	SHLD	2	▲	E88-SHLD	▲
▲			D491		E88	WNT	22	5	333	51-67
▲			D492		E88-SHLD	SHLD	2	▲	E89-SHLD	▲
▲			D493		E89	WNT	22	5	334	51-68
▲			D494		E89-SHLD	SHLD	2	▲	E90-SHLD	▲
▲			D495		E90	WNT	22	5	335	51-69
▲			D496		E90-SHLD	SHLD	2	▲	E91-SHLD	▲
▲			D497		E91	WNT	22	5	336	51-70
▲			D498		E91-SHLD	SHLD	2	▲	E92-SHLD	▲
▲			D499		E92	WNT	22	5	337	51-71
▲			D500		E92-SHLD	SHLD	2	▲	E93-SHLD	▲
▲			D501		E93	WNT	22	5	338	51-72
▲			D502		E93-SHLD	SHLD	2	▲	E94-SHLD	▲
▲			D503		E94	WNT	22	5	339	51-73
▲			D504		E94-SHLD	SHLD	2	▲	E95-SHLD	▲
▲			D505		E95	WNT	22	5	340	51-74
▲			D506		E95-SHLD	SHLD	2	▲	E96-SHLD	▲
▲			D507		E96	WNT	22	5	341	51-75
▲			D508		E96-SHLD	SHLD	2	▲	E97-SHLD	▲
▲			D509		E97	WNT	22	5	342	51-76
▲			D510		E97-SHLD	SHLD	2	▲		

SYM	REVISIONS		DATE	APPROVED
	DESCRIPTION			
C	RELEASED PER CCA R25338			
	CHANGED PER CCA R25331			
	DRAFTED CHM C15-0000 APPD 19-11			
	CLASS B CHANGED PER CCA R25330			
A	CHANGED PER CCA R25333			
	CHANGED PER CCA R25332			
B	CHANGED PER CCA R25335			
	DRAFTED CHM C15-0000 APPD 19-11			
	CHANGED PER CCA R25337			
	DRAFTED CHM C15-0000 APPD 19-11			
D	CHANGED PER CCA R25330			
	CHANGED PER CCA R25331			
E	CHANGED PER CCA R25332			
	DRAFTED CHM C15-0000 APPD 19-11			
	CHANGED PER CCA R25332			
F	CLASS A RELEASED PER TDR 2.1172			
G	CHANGED PER TDR 2.3303			
	DRAFTED CHM C15-0000 ETR			
	CHANGED PER TDR 2.6588			
	DRAFTED CHM C15-0000 APPD 19-11			
J	CHANGED PER TDR 2.6703			
	CHANGED PER CCA R25332			

QTY REQD	PART OR IDENTIFYING NO.	MANUFACTURE OR DESCRIPTION	FINISH
LIST OF MATERIALS			
 LUTHERTON CO. BIRMINGHAM, ALABAMA CONTRACT NO. 64-5-297		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWING NO. 64-5-297-100-1 SCHEDULED FOR DELIVERY 10/20/64 APPROVAL <i>[Signature]</i> APPROVAL <i>[Signature]</i> APPROVAL <i>[Signature]</i>		WIRING HARNESS, BRACKETED-D X Y INTERFACE COMPUTER TEST SET	
DRAWING NO. 64-5-297-100-1 SCHEDULED FOR DELIVERY 10/20/64 APPROVAL <i>[Signature]</i> APPROVAL <i>[Signature]</i> APPROVAL <i>[Signature]</i>		SIZE CODE IDENT NO. J 49956	SUBA CHAIRING PHS. 2014467
DRAWING NO. 64-5-297-100-1 SCHEDULED FOR DELIVERY 10/20/64 APPROVAL <i>[Signature]</i> APPROVAL <i>[Signature]</i> APPROVAL <i>[Signature]</i>		SCALE NUMBER TWO	SHEET # OF 4

2014496

REV	DESCRIPTION	DATE	APPROVED
0	RELEASED PER CCA RPS 432	10/1/52	W. H. HARRIS
1	CHANGE PER CCA RPS 432	10/1/52	W. H. HARRIS
2	CLASS 3 CHANGED PER CCA RPS 432	10/1/52	W. H. HARRIS
3	CHANGED PER CCA RPS 432	10/1/52	W. H. HARRIS
4	RELEASED PER TDR 26444	10/1/52	W. H. HARRIS
5	CHANGED PER TDR 26444	10/1/52	W. H. HARRIS
6	DR FEALE CHANGED	10/1/52	W. H. HARRIS

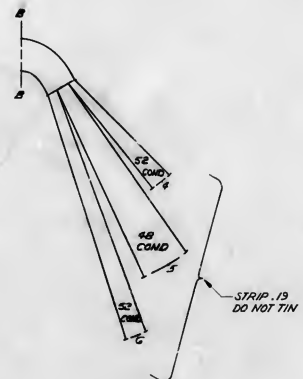
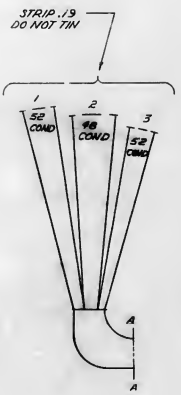


NOTES

1. FABRICATE PER MD100032 EXCEPT USE FIND NO. 19
2. MARK CONDUCTOR IDENTIFICATION PER MD100019
3. LACE ENTIRE HARNESS CONFIGURAT IN UNLESS OTHERWISE SPECIFIED
4. CRIMP PER MD100200
5. SERIALIZE PER MD100023
6. MARK MATHAL GOTHIC CHARACTERS AS SHOWN PER MD100219 USING BLACK INK 1006258-001
7. SUB-ASSEMBLY IDENTIFICATION
8. BOND FIND NO. 20-1518 FINE WIRE
9. MATERIAL REFERENCE DESIGNATIONS ARE SHOWN FOR COMPLETE DESIGNATION PREFIX WITH SUB-ASSEMBLY DESIGNATION
10. MIL-W-23053 CLIPS, COLOR RED, 10.750 FOR FIND NO. 28
11. 10.1000 FOR FIND NO. 8
12. QQ-B-325 FOR FIND NO. 10, 8-BRAID SIZE .50 AVG 34, FOR FIND NO. 30 BRAID SIZE .375 AVG 34
13. AN DENOTES AS REQUIRED
14. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
15. MIL-W-23053 CLASS 1, COLOR WHIT, 10.125 FOR FIND 21, 10.187 FOR FIND 31
16. THIS SYMBOL IS SHOWN ON ASSEMBLY INFORMATION CHART DENOTES INTERNAL CONNECTIONS
17. STRIP ALL LEADS .50 ± .06 & TIN PER MD100071 UNLESS OTHERWISE SPECIFIED
18. CUT SLEEVING LENGTH AS SHOWN
19. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327



VIEW A-A



* INDICATES LENGTH IN FEET

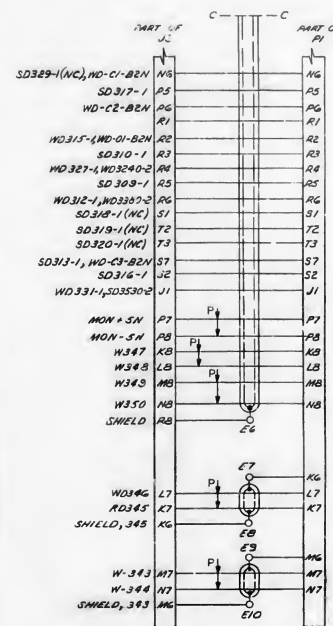
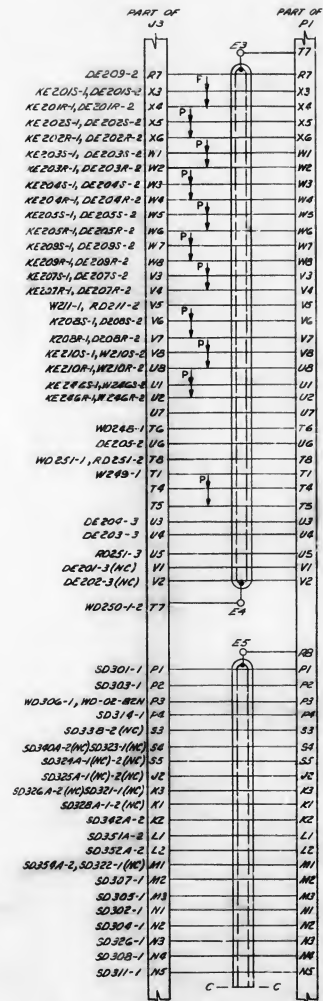
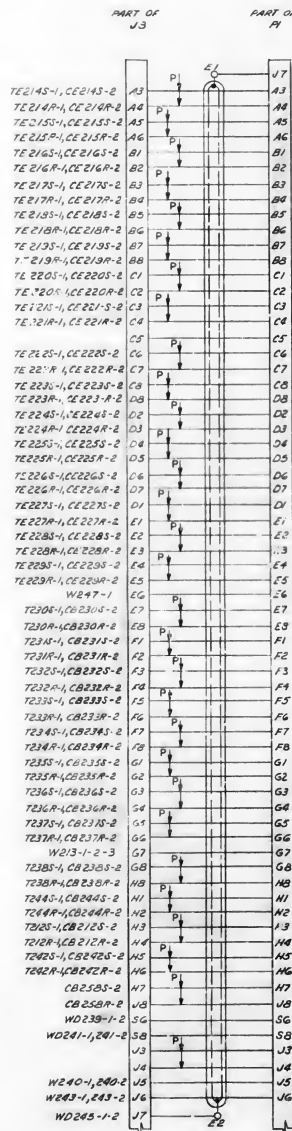
QTY	PART OR IDENTIFYING NO	DESCRIPTION	FIND NO
1	1006258-001	CONNECTOR, PLUG	16
1	1006258-002	CONNECTOR, PLUG	17
1	1006258-003	CONNECTOR, PLUG	18
1	1006258-004	CONNECTOR, PLUG	19
1	1006258-005	CONNECTOR, PLUG	20
1	1006258-006	CONNECTOR, PLUG	21
1	1006258-007	CONNECTOR, PLUG	22
1	1006258-008	CONNECTOR, PLUG	23
1	1006258-009	CONNECTOR, PLUG	24
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1	1006258-011	CONNECTOR, PLUG	26
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1	1006258-030	CONNECTOR, PLUG	45
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1	1006258-062	CONNECTOR, PLUG	77
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1	1006258-077	CONNECTOR, PLUG	92
1	1006258-078	CONNECTOR, PLUG	93
1	1006258-079	CONNECTOR, PLUG	94
1	1006258-080	CONNECTOR, PLUG	95
1	1006258-081	CONNECTOR, PLUG	96
1	1006258-082	CONNECTOR, PLUG	97
1	1006258-083	CONNECTOR, PLUG	98
1	1006258-084	CONNECTOR, PLUG	99
1	1006258-085	CONNECTOR, PLUG	100

CABLE ASSEMBLY
WI
OPERATION CONSOLE

2014496

2014496

SHEET 1 OF 3



CITY REGION		PART OR IDENTIFYING NO		NONCLASSIFICATION OR DESCRIPTION		DATE OF MATERIAL	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES OF DECIMALS DECIMALS ANGLES		KEY TO THIS CONTAINER 1. LOCATION 2. DATE 3. QUANTITY 4. DRAWING 5. REVISION 6. APPROVAL 7. APPROVAL 8. APPROVAL 9. APPROVAL 10. APPROVAL 11. APPROVAL 12. APPROVAL 13. APPROVAL 14. APPROVAL 15. APPROVAL 16. APPROVAL 17. APPROVAL 18. APPROVAL 19. APPROVAL 20. APPROVAL 21. APPROVAL 22. APPROVAL 23. APPROVAL 24. APPROVAL 25. APPROVAL 26. APPROVAL 27. APPROVAL 28. APPROVAL 29. APPROVAL 30. APPROVAL 31. APPROVAL 32. APPROVAL 33. APPROVAL 34. APPROVAL 35. APPROVAL 36. APPROVAL 37. APPROVAL 38. APPROVAL 39. APPROVAL 40. APPROVAL 41. APPROVAL 42. APPROVAL 43. APPROVAL 44. APPROVAL 45. APPROVAL 46. APPROVAL 47. APPROVAL 48. APPROVAL 49. APPROVAL 50. APPROVAL 51. APPROVAL 52. APPROVAL 53. APPROVAL 54. APPROVAL 55. APPROVAL 56. APPROVAL 57. APPROVAL 58. APPROVAL 59. APPROVAL 60. APPROVAL 61. APPROVAL 62. APPROVAL 63. APPROVAL 64. APPROVAL 65. APPROVAL 66. APPROVAL 67. APPROVAL 68. APPROVAL 69. 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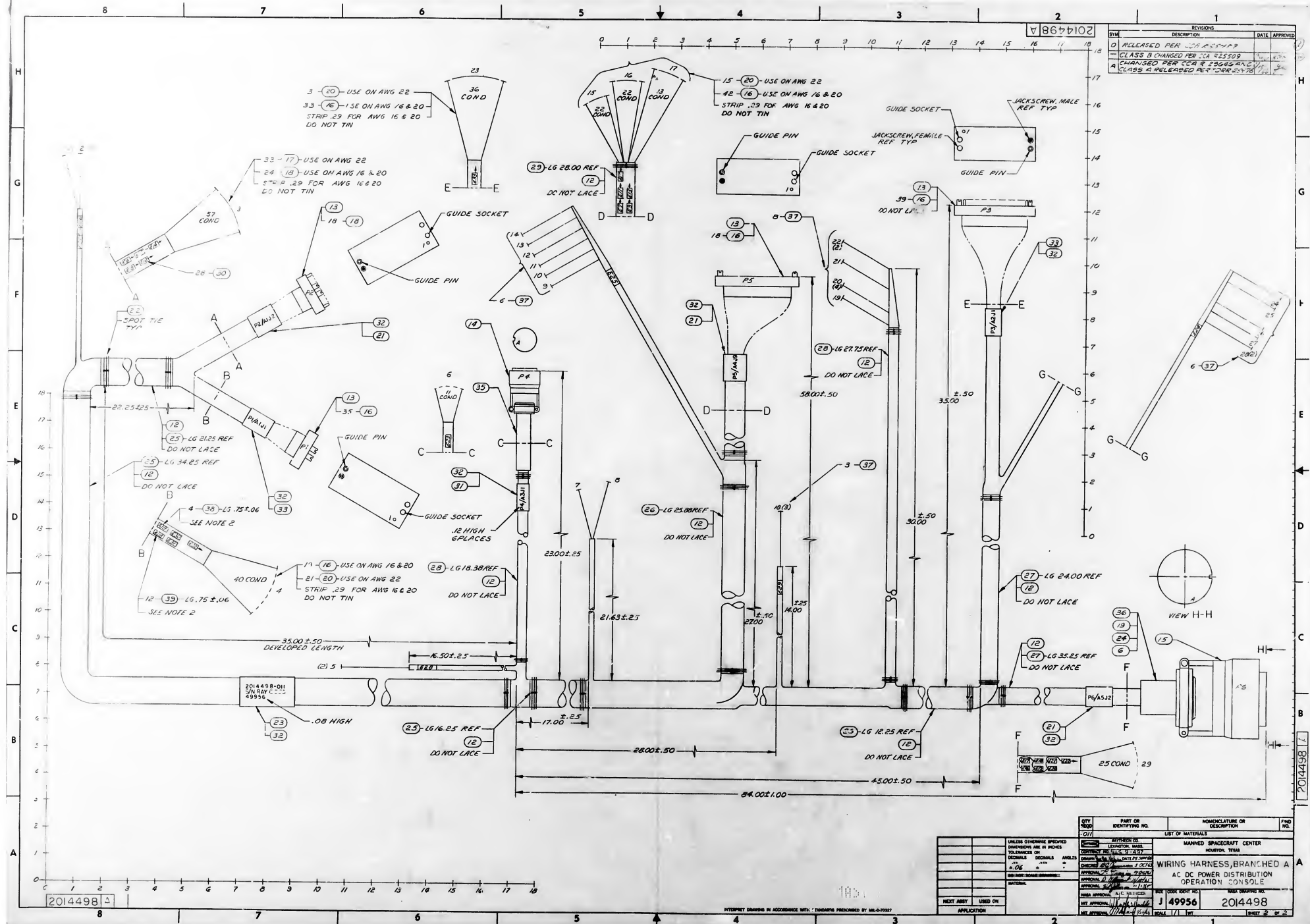
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	42		-60				-45		
	43		-57				-57		
	44		-54				-54		
	45		-51		20	2	P3-45		
	46		-48		16	4	P3-45		
	47		-79		24	4	P3-45		
	48		-72		14	4	P3-45		
	49		-79		13	4	P3-45		
	50		-74		14	4	P3-45		
	51		-67		17	4	P3-45		
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	116		-79		23	4	P3-45		
	117		-79		23	4	P3-45		
	118		-79		23	4	P3-45		
	119		-79		23	4	P3-45		
	120		-79		23	4	P3-45		
	121		-79		23	4	P3-45		
	122		-79		23	4	P3-45		
	123		-79		23	4	P3-45		
	124		-79		23	4	P3-45		
	125		-79		23	4	P3-45		
	126		-79		23	4	P3-45		
	127		-79		23	4	P3-45		
	128		-79		23	4	P3-45		
	129		-79		23	4	P3-45		
	130		-79		23	4	P3-45		
	131		-79		23	4	P3-45		
	132		-79		23	4	P3-45		
	133		-79		23	4	P3-45		
	134		-79		23	4	P3-45		
	135		-79		23	4	P3-45		
	136		-79		23	4	P3-45		
	137		-79		23	4	P3-45		
	138		-79		23	4	P3-45		
	139		-79		23	4	P3-45		
	140		-79		23	4	P3-45		
	141		-79		23	4	P3-45		
	142		-79		23	4	P3-45		
	143		-79		23	4	P3-45		
	144		-79		23	4	P3-45		
	145		-79		23	4	P3-45		
	146		-79		23	4	P3-45		
	147		-79		23	4	P3-45		
	148		-79		23	4	P3-45		
	149		-79		23	4	P3-45		
	150		-79		23	4	P3-45		

NOTES

- FABRICATE PER NID 1002032 EXCEPT USE FIND 22
- MARK CONDUCTOR IDENTIFICATION PER NID 1002019
- CRIMP PER NID 1002020
- SERIALIZE PER NID 1002023
- MARK NOMINAL GOTHIC CHARACTERS AS SHOWN PER NID 1002019
- USING BLACK INK 1002556-001
- PARTIAL REFERENCE DESIGNATIONS ARE SHOWN; FOR COMPLETE DESIGNATION PREFIX WITH SUB-ASSEMBLY DESIGNATIONS
- AR DENOTES AS REQUIRED
- STRIP ALL LEADS .19, DO NOT TIN UNLESS OTHERWISE SPECIFIED
- LAKE ENTIRE HARNESS CONFIGURATION UNLESS OTHERWISE SPECIFIED
- NUMBERS ENCLOSED IN PARENT THESES INDICATE NUMBER OF CONDUCTORS

2014498A

ASSEMBLY INFORMATION CHART									
FROM	TO	DESCRIPTION	COLOR	ANG	FINDING	STA NO.	DES	REMARKS	REMARKS
REMARKS	CONFIDENTIAL STA NO.	DES	ANG	FINDING	STA NO.	DES	REMARKS	REMARKS	REMARKS
	179	3	P2-43	UNT	16	4	P5-43		
	180		-44	BLK	5		-44		
	181		-47	UNT	4		-47		
	182		-48	BLK	4		-48		
	183		-47	UNT	4		-47		
	184	3	P2-54	BLK	4	5	P5-54		
	185	6	P4-11	UNT	4	23	P3-72		
	186	6	P4-K	BLK	5		-67		
	187	20	P3-4	UNT	4		-79		
	188	20	P3-6	BLK	5		-74		
	189	20	P3-4	UNT	4		-78		
	190	20	P3-6	BLK	16	3	P3-77		
	191	4	P1-66	UNT	16	4	P3-66		
	192	4	P1-65	BLK	16	5	P3-65		
	193	4	P1-3	UNT	22		P3-3		
	194	4	P1-2	BLK	22	7	P3-2		
	195	4	E33	SHLD			E33		
	196	4	P1-1	BLK	22	1	E32		
	197	3	P2-39	UNT	22		P5-39		
	198	3	P2-41	BLK	22	7	P5-41		
	199	3	E6	SHLD			E6		
	200	3	P2-42	BLK	22	1	E7		
	201	3	E7	BLK	22	1	P5-42		
	202	3	P2-63	UNT	22		P5-63		
	203	3	P2-64	BLK	22	7	P5-64		
	204	3	E8	SHLD			E8		
	205	3	P2-67	UNT	22		P5-67		
	206	3	P2-66	BLK	22	7	P5-66		
	207	3	E10	SHLD			E10		
	208	3	P2-65	BLK	22	1	E10		
	209	3	E11	BLK	22	1	P5-65		
	210	3	P2-70	UNT	22		P5-70		
	211	3	P2-77	BLK	22	7	P5-77		
	212	3	E12	SHLD			E12		
	213	3	P2-76	BLK	22	1	E12		
	214	3	E13	BLK	22	1	P5-76		
	215	3	P2-80	UNT	22		P5-80		
	216	3	P2-82	BLK	22	7	P5-82		
	217	3	E14	SHLD			E14		
	218	3	P2-79	BLK	22	1	E14		
	219	3	E15	BLK	22	1	P5-79		
	220	3	P1-11	UNT	20		P5-11		
	221	4	P1-11	BLK	20	8	P5-11		
	222	4	E30	SHLD			E30		
	223	6	P4-A	UNT	20		P6-N		
	224	6	P4-B	BLK	20	8	P6-Y		
	225	6	E23	SHLD			E16		
	226	6	E24	SHLD			E16		
	227	2	E1-1	BLK	16	9	E1-1		
	228	2	E27	SHLD			E28		
	229	29	P6-X	UNT	16		P6-X		
	230	29	P6-S	BLK	16	9	P6-S		
	231	29	P6-N	UNT	16		P6-N		
	232	29	P6-U	BLK	16	9	P6-U		
	233	29	E18	SHLD			E25		
	234	29	P6-V	BLK	16		P6-V		
	235	29	E19	SHLD			E19		
	236	29	P6-T	BLK	16		P6-T		
	237	29	P6-M	BLK	16	10	P6-M		
	238	29	E20	SHLD			E20		
	239	4	P1-12	BLK	20		P6-12		
	240	4	P1-14	BLK	20		P6-14		
	241	4	P1-15	BLK	20		P6-15		
	242	4	E31	SHLD			E31		
	243	4	E16	BLK	22	1	E17		
	244	4	E17	BLK	22	1	E18		
	245	4	E18	BLK	22	1	E19		
	246	4	E19	BLK	22	1	E20		
	247	4	E20	BLK	22	1	E21		
	248	4	E21	BLK	22	1	E22		



OUTSTANDING ECP'S
PLANNED FOR AIRCRAFT
CONFIGURATION CASH NO.
A & N SYSTEMS
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1. THIS DRAWING DEFINES CONFIGURATION OF SUBSYSTEMS AND SYSTEMS UP UNTIL THE TIME OF DELIVERY TO NASA. SEE INSTALLATION LIST 2014999 FOR CONFIGURATION CHANGES DUE TO RETROFIT.

2. PROCEDURE TO PS2015000.

3. REFERENCE DRAWINGS:
G & N-CAN-SUPPORTING DOCUMENT LIST-BLOCK 11-2019999.
INSTALLATION LIST-APOLLO GUIDANCE EQUIPMENT-BLOCK 11-2014999.

4.

5.

6. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-10327.

7. G & N SYSTEM USED TO BE DETERMINED BY NASA.

8. FINDING NO. 4 WILL HAVE PROVIDED AS GPP, PART NUMBER 2007203-011.

9. FINDING NO. 5 WILL HAVE PROVIDED AS GPP, PART NUMBER 2007222-181 OR 2007222-231.

10. FINDING NO. 6 WILL HAVE PROVIDED AS GPP, PART NUMBER 2015021-021.

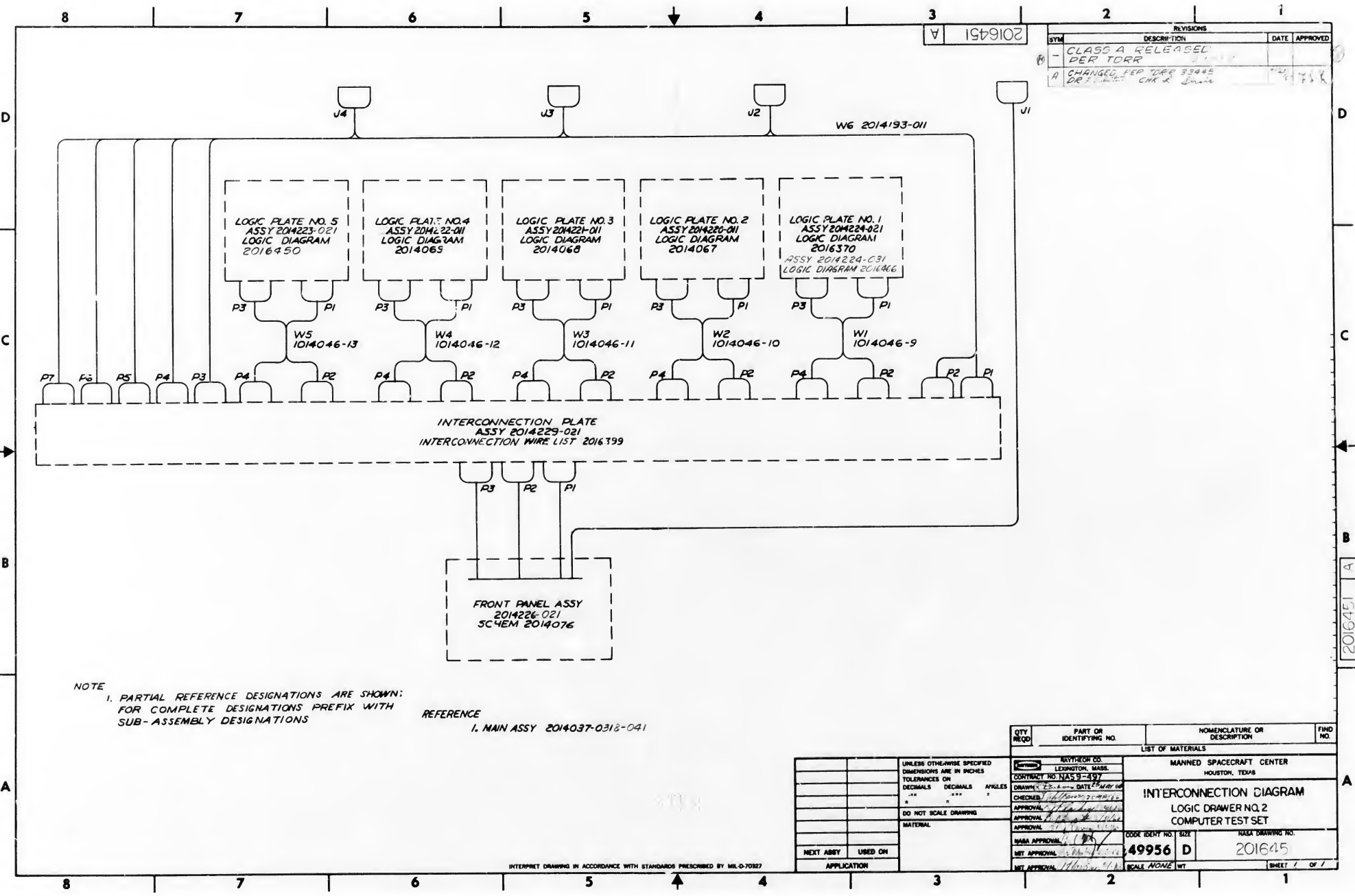
11. FINDING NO. 12 WILL HAVE PROVIDED AS GPP, PART NUMBER 2010000-081.

[illegible]

ZONAL LTR	REVISIONS		DATE	APPRO
	DESCRIPTION	CHD. NO.		
46	REPLACES 90' AT WITH CHANGE PER TDRR 31469	85	05 OCT 66	
AJ	REVISED PER TDRR 31548	1	1 NOV 66	
AK	REVISED PER TDRR 32027	1	1 DEC 66	
AL	REVISED PER TDRR 32287	1	1 DEC 66	
AM	REVISED PER TDRR 32586	1	1 DEC 66	
AN	REVISED PER TDRR 32587	1	1 DEC 66	
AO	REVISED PER TDRR 32588	1	1 DEC 66	
AP	REVISED PER TDRR 32589	1	1 DEC 66	
AQ	REVISED PER TDRR 32590	1	1 DEC 66	
AR	REVISED PER TDRR 32591	1	1 DEC 66	
AS	REVISED PER TDRR 32592	1	1 DEC 66	
AT	REVISED PER TDRR 32593	1	1 DEC 66	
AV	REVISED PER TDRR 32594	1	1 DEC 66	
AW	REVISED PER TDRR 32595	1	1 DEC 66	
AX	REVISED PER TDRR 32596	1	1 DEC 66	
AY	REVISED PER TDRR 32597	1	1 DEC 66	
AZ	REVISED PER TDRR 32598	1	1 DEC 66	
BA	REVISED PER TDRR 32599	1	1 DEC 66	
BB	REVISED PER TDRR 32600	1	1 DEC 66	
BC	REVISED PER TDRR 32601	1	1 DEC 66	
BD	REVISED PER TDRR 32602	1	1 DEC 66	
BE	REVISED PER TDRR 32603	1	1 DEC 66	
BF	REVISED PER TDRR 32604	1	1 DEC 66	
BG	REVISED PER TDRR 32605	1	1 DEC 66	
BH	REVISED PER TDRR 32606	1	1 DEC 66	
BI	REVISED PER TDRR 32607	1	1 DEC 66	
BJ	REVISED PER TDRR 32608	1	1 DEC 66	
BK	REVISED PER TDRR 32609	1	1 DEC 66	
BL	REVISED PER TDRR 32610	1	1 DEC 66	
BM	REVISED PER TDRR 32611	1	1 DEC 66	
BN	REVISED PER TDRR 32612	1	1 DEC 66	
BO	REVISED PER TDRR 32613	1	1 DEC 66	
BP	REVISED PER TDRR 32614	1	1 DEC 66	
BQ	REVISED PER TDRR 32615	1	1 DEC 66	
BR	REVISED PER TDRR 32616	1	1 DEC 66	
BS	REVISED PER TDRR 32617	1	1 DEC 66	
BT	REVISED PER TDRR 32618	1	1 DEC 66	
BU	REVISED PER TDRR 32619	1	1 DEC 66	
BV	REVISED PER TDRR 32620	1	1 DEC 66	
BW	REVISED PER TDRR 32621	1	1 DEC 66	
BX	REVISED PER TDRR 32622	1	1 DEC 66	
BY	REVISED PER TDRR 32623	1	1 DEC 66	
BZ	REVISED PER TDRR 32624	1	1 DEC 66	
CA	REVISED PER TDRR 32625	1	1 DEC 66	
CB	REVISED PER TDRR 32626	1	1 DEC 66	
CC	REVISED PER TDRR 32627	1	1 DEC 66	
CD	REVISED PER TDRR 32628	1	1 DEC 66	
CE	REVISED PER TDRR 32629	1	1 DEC 66	
CF	REVISED PER TDRR 32630	1	1 DEC 66	
CG	REVISED PER TDRR 32631	1	1 DEC 66	
CH	REVISED PER TDRR 32632	1	1 DEC 66	
CI	REVISED PER TDRR 32633	1	1 DEC 66	
CJ	REVISED PER TDRR 32634	1	1 DEC 66	
CK	REVISED PER TDRR 32635	1	1 DEC 66	
CL	REVISED PER TDRR 32636	1	1 DEC 66	
CM	REVISED PER TDRR 32637	1	1 DEC 66	
CN	REVISED PER TDRR 32638	1	1 DEC 66	
CO	REVISED PER TDRR 32639	1	1 DEC 66	
CP	REVISED PER TDRR 32640	1	1 DEC 66	
CQ	REVISED PER TDRR 32641	1	1 DEC 66	
CR	REVISED PER TDRR 32642	1	1 DEC 66	
CS	REVISED PER TDRR 32643	1	1 DEC 66	
CT	REVISED PER TDRR 32644	1	1 DEC 66	
CU	REVISED PER TDRR 32645	1	1 DEC 66	
CV	REVISED PER TDRR 32646	1	1 DEC 66	
CW	REVISED PER TDRR 32647	1	1 DEC 66	
CX	REVISED PER TDRR 32648	1	1 DEC 66	
CY	REVISED PER TDRR 32649	1	1 DEC 66	
CZ	REVISED PER TDRR 32650	1	1 DEC 66	
DA	REVISED PER TDRR 32651	1	1 DEC 66	
DB	REVISED PER TDRR 32652	1	1 DEC 66	
DC	REVISED PER TDRR 32653	1	1 DEC 66	
DD	REVISED PER TDRR 32654	1	1 DEC 66	

ITEM NO. <u>0000</u>		PART OR IDENTIFYING NUMBER		ACQUISITION OR IDENTIFICATION	
LIST OF PARTS AND MATERIALS					
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES ON DRAWN <u>14.00</u> DATE <u>10/10/80</u>		INSTRUMENTATION LAB		MADE IN SPACECRAFT CENTER HOUSTON TEXAS	
DRAWN <u>14.00</u> DATE <u>10/10/80</u>		CHECKED <u>14.00</u> DATE <u>10/10/80</u>		G & H SPEC. CRAFT (U) PART COMBAND MODULE BLOCK 11	
APPROVAL <u>14.00</u> SIGNATURE <u>14.00</u>		CONTRACT			
DO NOT SCALE THIS DRAWING		MATERIAL		USE CODE DRAWING NO. <u>2015000</u>	
NADA APPROVAL <u>14.00</u> SIGNATURE <u>14.00</u>		SCALE		SHEET	
NEXT ASSY <u>14.00</u> USED ON <u>14.00</u>		APPROVAL <u>14.00</u> SIGNATURE <u>14.00</u>			
APPLICATION		APPROVAL			

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE		MATERIALS AND LAB CONTROL SHEET		MANAGED SPACECRAFT CENTER HOUSTON, TEXAS	
2 PLACE 3 PLACE DECIMALS DECIMALS ANGLES	+	-	+	+	
DO NOT SCALE THIS DRAWING	DRAWN BY: J. JONES DATE: 10-18-95		G & N SPACECRAFT EQUIPMENT COMPANY NO. 000004		
MATERIAL	CHECKED BY: C. L. SMITH 10-18-95		BLOCK 11		
	APPROVAL: M. STAMMERG 10-18-95				
	CONTRACT				
NO 10000000 NEXT ASY USED ON	1. EA APPROVAL: B. KUPFER 10-18-95 2. APPROVAL: M. KUPFER 10-18-95		SIZE E 80230	QUANT NO. 2105000	
APPROVAL:			PAGE 2 OF 2		



REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
-	CLASS A RELEASED PER TORR		
A	CHANGED PER TORR 33445 DR 2-1-65 CHK & Draw		

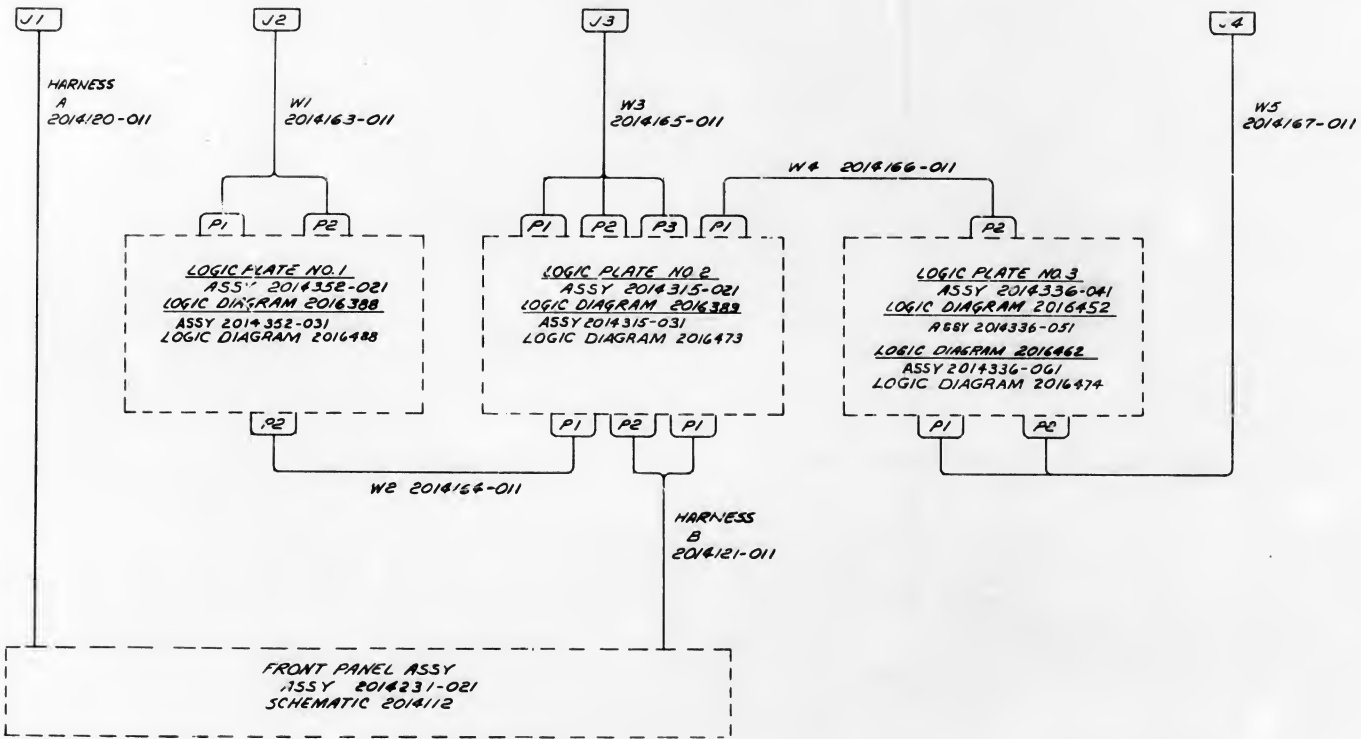
NOTE
1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN;
FOR COMPLETE DESIGNATIONS PREFIX WITH
SUB-ASSEMBLY DESIGNATIONS

REFERENCE
1. MAIN ASSY 2014037-0318-041

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
INTERCONNECTION DIAGRAM LOGIC DRAWER NO. 2 COMPUTER TEST SET			
CODE IDENT NO. 49956		NASA DRAWING NO. 201645	
SCALE NONE		SHEET 1 OF 1	

2016454 B

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
-	CLASS A RELEASED PER TORR 36171	2/1/66	WJH
A	CHANGED PER TORR 37498 DR 7/1/66	7/1/66	WJH
B	CHANGED PER TORR 35533 DR 8/1/66	8/1/66	WJH



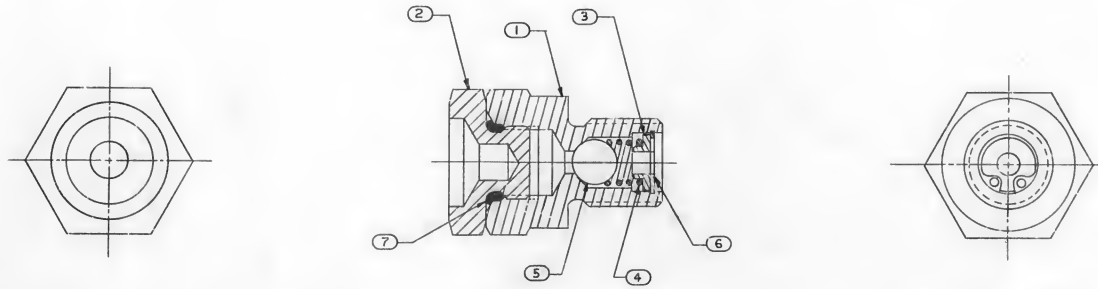
NOTE
1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN:
FOR COMPLETE DESIGNATIONS PREFIX WITH
SUB-ASSEMBLY DESIGNATIONS

REFERENCE
1. MAIN ASSY 2014041-041, 051, & 061

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIG NO.
LIST OF MATERIALS			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMALS DECIMALS ANGLES DRAWN BY DATE CHECKED BY DATE DO NOT SCALE DRAWING MATERIAL NEXT ASSY USED ON APPLICATION			
LEXINGTON CO. CONTRACT NO. NAS 5-497 DRAWN BY DATE CHECKED BY DATE APPROVAL APPROVAL NASA APPROVAL NASA APPROVAL MIL APPROVAL		MANNED SPACECRAFT CENTER HOUSTON, TEXAS INTERCONNECTION DIAGRAM PROGRAMMER & MONITOR CTS CODE IDENT NO. SIZE 49956 D SCALE NONE SHEET 1 OF 1	

NOTES: - THIS DRAWING IS A PRELIMINARY DRAWING. IT IS NOT TO BE USED FOR FABRICATION OR FOR THE CONSTRUCTION OF A MODEL. IT IS TO BE USED FOR THE PURPOSE OF IDENTIFYING THE PARTS OF THE DRAWING. THE DRAWING IS NOT TO BE USED FOR THE PURPOSE OF IDENTIFYING THE PARTS OF THE DRAWING. THE DRAWING IS NOT TO BE USED FOR THE PURPOSE OF IDENTIFYING THE PARTS OF THE DRAWING.



NOTES:
 1. INTERPRET DRAWING IN ACCORDANCE WITH MIL-D-70327
 2. IDENTIFY USING DWS. NO., REV. LETTER & MANUFACTURERS
 3. LEAKAGE: NOT TO EXCEED 1.0 X 10⁻⁵ CC/SEC AIR AT 30 PSIG AND 68°F ± 5°F

REVISIONS TDR 13609					
SYN	ENR	DESCRIPTION	DR	CHK	DATE

1	1000159-4	PACKING, PREFORMED O' RING	7
1	MS-16625-4025	RING, RETAINING, INTERNAL	6
1	MS-134554	BALL	5
1	MS-24385-C38	SPRING	4
1	2018770	GUIDE, SPRING	3
1	2018771	PLUG	2
1	2018772	BODY	1

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	HOMECLATURE OR DESCRIPTION	PRD NO.

MITT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN J.G. EUBANK 12-7-61		VALVE, PRESSURE ASSEMBLY	
CHECKED [Signature]			
APPROVED [Signature]			
APPROVED [Signature]			
APPROVED MIT	DATE 12-7-61	CODE IDENT NO.	SIZE
APPROVED [Signature]	DATE 12-7-61	D	2018773
APPROVED [Signature]	DATE 12-7-61	SCALE 3/1	SHEET 1 OF 1

2018601	DL2018601
TEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 CAPACITOR VALUES ARE IN μ F
 RESISTOR VALUES ARE IN OHMS
 TOLERANCES ON
 FRACTIONS DECIMALS ANGLES
 * * *
 DO NOT SCALE THIS DRAWING

MATERIAL

[illegible]

☒ SYMBOL INDICATES MODULE REQUIRED

QTY REQD	PART OR IDENTIFYING NO	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION		FURN SOURCE
			LIST OF MATERIALS		
MIT INSTRUMENTATION LAB CAMBRIDGE MASS			MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN			COMPUTER PROGRAM ASSEMBLY AURORA (LEM)		
CHECKED					
APPROVED <i>[Signature]</i> 3-2-66					
APPROVED <i>[Signature]</i> 3-2-66					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES ARE $\pm .010$ $\pm .005$ $\pm .010$ DO NOT SCALE THIS DRAWING			DRAWING NO		
MATERIAL			CODE IDENT NO		
ND 1000 000			SIZE		
NEXT ASSY USED ON			D 2021101		
APPLICATION			SCALE		
			SHEET 1 OF 4		

8 7 6 5 4 3 2 1

REVISIONS 2702

REV	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TORR 29740	L.R.B.			
B		REVISED PER TORR 32498	BPC	2/18/68		

SUNDIAL PROGRAM ASSEMBLY 2021104									
MODULE B-1	MODULE B-2	MODULE B-3	MODULE B-4	MODULE B-5	MODULE B-6	PROGRAM SPECIFICATION			
PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	ASSEMBLY DASH NO.	FUNCTION	LAUNCH PERIOD	EFFECTIVITY
2003053-121	2003053-131	2003053-141	2003076-011	2003076	2003076	-011 ONE EACH PER COMPUTER	SYSTEM TEST BL II C/M	N/A	N/A
						B-1			
						B-2			
						B-3			
						JUMPER			
						JUMPER			
						JUMPER			
2003053-121	2003053-151	2003053-161	2003076-011			-021 ONE EACH PER COMPUTER	SYSTEM TEST BL II C/M	N/A	N/A
						B-1			
						B-2			
						B-3			
						JUMPER			
						JUMPER			
						JUMPER			

⊠ SYMBOL INDICATES MODULE REQUIRED

QTY. REQD.		PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FINI NO.
LIST OF MATERIALS					
MIT INSTRUMENTATION LAB CAMBRIDGE MASS			MASSACHUSETTS SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN <i>A. G. G. G. G.</i>			COMPUTER PROGRAM ASSEMBLY SUNDIAL C/M		
CHECKED <i>J. J. J. J. J.</i>			CODE IDENT NO. 80230 D		
APPROVED <i>J. J. J. J. J.</i>			DRAWING NO. 2021104		
APPROVED <i>A. G. G. G. G.</i>			DATE 2/18/68		
APPROVED <i>A. G. G. G. G.</i>			SCALE		
APPROVED <i>A. G. G. G. G.</i>			SHEET 1 OF 1		

	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS A DO NOT SCALE THIS DRAWING
	MATERIAL
NO 1 000 000	
NEXT ASSY	USED ON
APPLICATION	

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANG DO NOT SCALE THIS DRAWING MATERIAL
ND 1 000 000		
NEXT ASSY	USED ON	
APPLICATION		

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
(18)	-	INITIAL RELEASE TDRR 33462			12 MAR 78	GA
	A	REVISED PER TDRR 33604	101	PLA	8/1/87	78Y

[illegible]

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
		INITIAL RELEASE TDRR 33462			17 APR 17	AKL

SUNBURST PROGRAM ASSEMBLY 2021 I06										
MODULE B-1	MODULE B-2	MODULE B-3	MODULE B-4	MODULE B-5	MODULE B-6	PROGRAM SPECIFICATION				
PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	ASSEMBLY DASH NO.	FUNCTION	LAUNCH PERIOD	EFFECTIVITY	
						ONE EACH PER COMPUTER			COMPUTER SERIAL NO.	
2003972-141	2003972-151	2003972-161	2003972-171	2003972-181	2003972-191	- 011	AS206 FLIGHT	N/A		
						B-1				
						B-2				
						B-3				
						B-4				
						B-5				
						B-6				

☒ SYMBOL INDICATES MODULE REQUIRED

QTY REQD		PART OR IDENTIFYING NO.		MATERIAL OR NOTES		NOMENCLATURE OR DESCRIPTION		FPM NO	
LIST OF MATERIALS									
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES * * * DO NOT SCALE THIS DRAWING MATERIAL		MIT INSTRUMENTATION LAB CAMBRIDGE, MASS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS					
		DRAWN <i>P. J. King</i> <i>2/1/67</i> CHECKED <i>R. Wilson</i> <i>2/1/67</i>		COMPUTER PROGRAM ASSEMBLY SUNBURST					
		APPROVED <i>E. C. Smith</i> <i>2/1/67</i> APPROVED <i>E. C. Smith</i> <i>2/1/67</i>							
		APPROVED <i>P. J. King</i> <i>2/1/67</i> BY <i>W. C. King</i> <i>2/1/67</i>		CODE IDENT. NO. 80230		SIZE D	DRAWING NO. 2021106		
		APPROVED <i>P. J. King</i> <i>2/1/67</i> BY <i>W. C. King</i> <i>2/1/67</i>		DATE _____		SCALE _____			
		APPROVED <i>P. J. King</i> <i>2/1/67</i> BY <i>W. C. King</i> <i>2/1/67</i>		DATE _____		SHEET _____ OF _____			
NEXT ASSY _____ USED ON _____ APPLICATION _____									

7	6	5	4	3	2	1
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LA MESH PROGRAM ASSEMBLY 2021107

[illegible]

NOTE
1. RAYTHEON FACTORY TEST EQUIPMENT

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm * DO NOT SCALE THIS DRAWING		MIT INSTRUMENTATION LAB CAMBRIDGE, MASS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
		DRAWN: <i>[Signature]</i> 12-2-62 CHECKED: <i>[Signature]</i> 12-3-62 APPROVED: <i>[Signature]</i> 12-3-62 APPROVED: <i>[Signature]</i> 12-3-62		COMPUTER PROGRAM ASSEMBLY LA MESH	
MATERIAL		CODE IDENT NO. SIZE DRAWING NO. APPROVED: <i>[Signature]</i> 12-1-62 80230 D 2021107			
NEXT ASSY USED IF:		APPROVED: <i>[Signature]</i> 12-1-62 DATE DATE DATE		SHEET 1 OF 1	

SLNDANCE PROGRAM ASSEMBLY 2021110									
MODULE B-1	MODULE B-2	MODULE B-3	MODULE B-4	MODULE B-5	MODULE B-6	PROGRAM SPECIFICATION			
PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	ASSEMBLY DASH NO.	FUNCTION	LAUNCH PERIOD	EFFECTIVITY COMPUTER SERIAL NO.
2003972-371	2003972-381	2003972-391	2003972-411	2003972-421	2003972-431	-OII ONE EACH PER COMPUTER	LM-3 GROUND TEST		
						B-1			
						B-2			
						B-3			
						B-4			
						B-5			
						B-6			

QTY REQD		PART OR IDENTIFYING NO		MATERIAL OR NOTES		NOMENCLATURE OR DESCRIPTION		FIN NO	
LIST OF MATERIALS									
		MIT INSTRUMENTATION LAB CAMBRIDGE MASS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS					
		DRAWN <u>J.P. Anderson</u> <u>1-25-68</u>		COMPUTER PROGRAM					
		CHECKED <u>J. Wilson</u> <u>4-23-68</u>		ASSEMBLY					
		APPROVED <u>William Caldwell</u> <u>5/1/68</u>		SUNDANCE					
		APPROVED <u>W. H. Anderson</u> <u>5/1/68</u>							
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES * * * DO NOT SCALE THIS DRAWING									
MATERIAL		APPROVED BY <u>W. H. Anderson</u> <u>5/1/68</u>		CODE IDENT NO		SIZE		DRAWING NO	
NEXT ASSY		APPROVED BY <u>W. H. Anderson</u> <u>5/1/68</u>		80230		D		2021110	
USED ON		APPROVED BY <u>W. H. Anderson</u> <u>5/1/68</u>		DATE		SCALE NONE		SHEET 1 OF 1	
APPLICATION									

SUNDANCE PROGRAM ASSEMBLY 2021110										
MODULE B-1	MODULE B-2	MODULE B-3	MODULE B-4	MODULE B-5	MODULE B-6	PROGRAM SPECIFICATION				
PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	ASSEMBLY DASH NO.	FUNCTION	EFFECTIVITY		
								LAUNCH PERIOD	MASTER TAPE DECK NO.	PROGRAM REV NO
2003972-371	2003972-381	2003972-391	2003972-411	2003972-421	2003972-431	-011 ONE EACH PER COMPUTER B-1 B-2 B-3 B-4 B-5 B-6	LM-3 GROUND TEST		2021150-001	SUNDANCE 292
2003972-441	2003972-451	2003972-461	2003972-471	2003972-481	2003972-491	-021 ONE EACH PER COMPUTER B-1 B-2 B-3 B-4 B-5 B-6			2021150-002	SUNDANCE 302

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ALL MODULES THAT MAKE UP THIS ASSEMBLY ARE TO BE TESTED TO AND MUST MEET THE REQUIREMENTS FOR THE INDIVIDUAL MODULE.

QTY REQD		PART OR IDENTIFYING NO		MATERIAL OR NOTES		NOMENCLATURE OR DESCRIPTION		FR NO	
LIST OF MATERIALS									
		MIT		MANNED SPACECRAFT CENTER HOUSTON, TEXAS					
		INSTRUMENTATION LAB CAMDEN-DE HARB							
		DRAWN <i>J. J. Johnson</i>		6-12-60		COMPUTER PROGRAM ASSEMBLY SUNDANCE			
		CHECKED <i>S. Wilson</i>		6-28-60					
		APPROVED <i>S. Wilson</i>		6-28-60					
		APPROVED <i>S. Wilson</i>		6-28-60					
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES DO NOT SCALE THIS DRAWING MATERIAL							
NEXT ASSY		USED ON		CODE IDENT NO		SIZE		DRAWING NO	
APPLICATION				80230		D		202110	
		APPROVED <i>[Signature]</i>		DATE		SCALE		SHEET 1 OF 1	

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REVISIONS		TDK 36114			
DATE	ZONE	DESCRIPTION	BY	APP'D	DATE

SUNDANCE PROGRAM ASSEMBLY 2021110									
MODULE B-1						PROGRAM SPECIFICATION			
PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	ASSEMBLY DASH NO.	FUNCTION	LAUNCH PERIOD	EFFECTIVITY COMPUTER SERIAL NO.
2003972-371	2003972-381	2003972-391	2003972-411	2003972-421	2003972-431	-011 ONE EACH PER COMPUTER			
						B-1			
						B-2			
						B-3			
						B-4			
						B-5			
						B-6			

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS				
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN	<i>P. P. [Signature]</i>	4-25-68	COMPUTER PROGRAM ASSEMBLY SUNDANCE	
CHECKED	<i>G. [Signature]</i>	8-28-68		
APPROVED	<i>[Signature]</i>	8/28/68		
APPROVED	<i>[Signature]</i>	8-28-68		
APPROVED	<i>[Signature]</i>	8-28-68	DRAWING NO. 2021110	
APPROVED	<i>[Signature]</i>	8-28-68		
APPROVED	<i>[Signature]</i>	8-28-68	CODE IDENT NO. 8023C SCALE NONE	
APPROVED	<i>[Signature]</i>	8-28-68		
APPROVED	<i>[Signature]</i>	8-28-68	SHEET 1 OF 1	
APPROVED	<i>[Signature]</i>	8-28-68		

1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.
2. CAPACITOR VALUES ARE IN OHMS.
3. RESISTOR VALUES ARE IN OHMS.
4. TOLERANCES ON FRACTIONS, DECIMALS, ANGLES.
5. DO NOT SCALE THIS DRAWING.
6. MATERIAL.

REVISIONS				
REV	DATE	DESCRIPTION	BY	CHK
A		REVISED PER TDRR 36559		

COLOSSUS PROGRAM ASSEMBLY 2021111									
MODULE B-1	MODULE B-2	MODULE B-3	MODULE B-4	MODULE B-5	MODULE B-6	PROGRAM SPECIFICATION			
PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	ASSEMBLY DASH NO	FUNCTION	EFFECTIVITY LAUNCH PERIOD	MASTER TAPE DECK NO
2003972-511	2003972-521	2003972-531	2003972-541	2003972-551	2003972-561	-021 ONE EACH PER COMPUTER			2021151-002
						B-1			236
						B-2			
						B-3			
						B-4			
						B-5			
						B-6			
2003972-511	2003972-521	2003972-531	2003972-541	2003972-551	2003972-561	-031 ONE EACH PER COMPUTER	APOLLO 8		2021151-003
						B-1			237
						B-2			
						B-3			
						B-4			
						B-5			
						B-6			

- NOTES:
- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 - ALL MODULES THAT MAKE UP THIS ASSEMBLY ARE TO BE TESTED TO AND MUST MEET THE REQUIREMENTS FOR THE INDIVIDUAL MODULE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIG NO.
LIST OF MATERIALS				
BIT INSTRUMENTATION LAB CAMBRIDGE MASS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN: <i>[Signature]</i>		COMPUTER PROGRAM ASSEMBLY COLOSSUS		
CHECKED: <i>[Signature]</i>		CODE IDENT NO. 80230 D		
APPROVED: <i>[Signature]</i>		DRAWING NO. 2021111		
APPROVED: <i>[Signature]</i>		SCALE		
NEXT ASSY USED ON APPLICATION		SHEET 1 OF 1		

1

REVISIONS TDRR 3680P						
SYM	ZONE	DESCRIPTION	DN	CM	DATE	APPROVED
A		REVISED PER TDRR 36859	14	14	11/21/00	OTL
B		REVISED PER TDRR 37009	14	14	11/24/00	7SR

COLOSSUS PROGRAM ASSEMBLY 2021111

MODULE B-1	MODULE B-2	MODULE B-3	MODULE B-4	MODULE B-5	MODULE B-6	PROGRAM SPECIFICATION				
PART NO.	PART NO	PART NO	PART NO	PART NO	PART NO	ASSEMBLY DASH NO	FUNCTION	LAUNCH PERIOD	EFFECTIVITY MASTER TAPE DECK NO	PROGRAM REV NO
2003972-511	2003972-521	2003972-531	2003972-541	2003972-551	2003972-561	-021 ONE EACH PER COMPUTER B-1 B-2 B-3 B-4 B-5 B-6			2021151-002	236
2003972-511	2003972-521	2003972-531	2003972-541	2003972-571	2003972-561	-031 ONE, EACH PER COMPUTER B-1 B-2 B-3 B-4 B-5 B-6	APOLLO 8		2021151-003	237
2003972-551	2003972-661	2003972-671	2003972-681	2003972-691	2003972-711	-041 ONE EACH PER COMPUTER B-1 B-2 B-3 B-4 B-5 B-6			2021151-004	249

NOTES:

1. INTERPERT DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ALL MODULES THAT MAKE UP THIS ASSEMBLY ARE TO BE TESTED TO AND MUST MEET THE REQUIREMENTS FOR THE INDIVIDUAL MODULE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIG NO.
LIST OF MATERIALS				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ RESISTOR VALUES ARE IN OHMS TO FRACTIONS ON ANGLES DO NOT SCALE THIS DRAWING		<div data-bbox="1536 1061 1671 1074"> MIT INSTRUMENTATION LAB CAMBRIDGE, MASS </div> <div data-bbox="1749 1061 1939 1074"> MAN'NED SPACECRAFT CENTER HOUSTON, TEXAS </div> <div data-bbox="1693 1076 1939 1110"> COMPUTER PROGRAM ASSEMBLY COLOSSUS </div>		
DRAWN <i>W. J. T. E.</i>	CHECKED <i>E. J. J.</i>	APPROVED <i>E. J. J.</i>	CODE IDENT NO. 80230 SIZE D DRAWING NO. 2021111	
APPROVED <i>E. J. J.</i>	APPROVED <i>E. J. J.</i>	APPROVED <i>E. J. J.</i>	SCALE SHEET 1 OF 1	
NEXT ASSY	USED ON	APPLICATION		

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FR NO.
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS			LIST OF MATERIALS	
			MANNED FLIGHT CENTER HOUSTON, TEXAS	
DRAWN BY <u>W. J. BATES</u>			COMPUTER PROGRAM ASSEMBLY COLOSSUS	
CHECKED BY <u>W. J. BATES</u>				
APPROVED BY <u>W. J. BATES</u>				
APPROVED BY <u>W. J. BATES</u>				
APPROVED BY MIT REC	DATE <u>8-1-63</u>	CODE IDENT NO 80230	SIZE D	DRAWING NO. 2021111
SCALE <u>1/8"</u>		SHEET 1 OF 1		

NOTES: 1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. 2. DIMENSIONS ARE IN INCHES. 3. DIMENSIONS ARE IN INCHES. 4. DIMENSIONS ARE IN INCHES. 5. DIMENSIONS ARE IN INCHES. 6. DIMENSIONS ARE IN INCHES. 7. DIMENSIONS ARE IN INCHES. 8. DIMENSIONS ARE IN INCHES.

REVISED PER TDOR 37531		REVISED PER TDOR 37531		REVISED PER TDOR 37531	
DATE	ZONE	DESCRIPTION	DATE	ZONE	DESCRIPTION
12/1/66	1	COMPUTER PROGRAM ASSEMBLY LUMINARY	12/1/66	1	COMPUTER PROGRAM ASSEMBLY LUMINARY

LUMINARY PROGRAM ASSEMBLY 2021112									
MODULE B-1	MODULE B-2	MODULE B-3	MODULE B-4	MODULE B-5	MODULE B-6	PROGRAM SPECIFICATION			
PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	ASSEMBLY DASH NO.	FUNCTION	LAUNCH PERIOD	EFFECTIVITY MASTER TAPE DECK NO.
2003972-721	2003972-731	2003972-741	2003972-751	2003972-761	2003972-771	-011 ONE EACH PER COMPUTER B-1 B-2 B-3 B-4 B-5 B-6	APOLLO 10 & 11		2021152-001
2003972-951	2003972-961	2003972-971	2003972-981	2003972-991	2003972-1011	-021 ONE EACH PER COMPUTER B-1 B-2 B-3 B-4 B-5 B-6	APOLLO 10 & 11		2021152-002
2003972-721	2003972-931	2003972-741	2003972-751	2003972-761	2003972-771	-031 ONE EACH PER COMPUTER B-1 B-2 B-3 B-4 B-5 B-6	APOLLO 10 & 11		2021152-003

- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. ALL MODULES THAT MAKE UP THIS ASSEMBLY ARE TO BE TESTED TO AND MUST MEET THE REQUIREMENTS FOR THE INDIVIDUAL MODULE

QTY REQD		PART OR IDENTIFYING NO.		MATERIAL OR NOTES		NOMENCLATURE OR DESCRIPTION		FIND NO.	
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS									
MANNED SPACECRAFT CENTER HOUSTON, TEXAS									
DRAWN 10/1/66 BY 27N/66									
CHECKED 11/1/66 BY 27N/66									
APPROVED 11/1/66 BY 27N/66									
APPROVED 12/1/66 BY 27N/66									
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN OHMS RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES									
DO NOT SCALE THIS DRAWING									
MATERIAL									
NEXT ASSY USED ON APPLICATION									
APPROVED MIT 12/1/66									
APPROVED MSC 12/1/66									
CODE IDENT NO. 80230									
DRAWING NO. 2021112									
DATE SCALE 1/1									
SHEET 1 OF 1									

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1

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MODULE B-1						MODULE B-2						MODULE B-3						MODULE B-4						MODULE B-5						MODULE B-6						PROGRAM SPECIFICATION					
PART NO.		PART NO.		PART NO.		PART NO.		PART NO.		PART NO.		ASSEMBLY DASH NO.		FUNCTION		LAUNCH PERIOD		EFFECTIVITY MASTER TAPE DECK NO.		PROGRAM REV NO.																					
2003972-1071		2003972-1051		2003972-971		2003972-981		2003972-1061		2003972-1011		-061 ONE EACH PER COMPUTER		APOLLO 11 & 12				2021152-006		LUMINARY 99																					
												B-1																													
												B-2																													
												B-3																													
												B-4																													
												B-5																													
												B-6																													

[illegible]

SYN		ZONE	DESCRIPTION	DR	C	DATE	APPROVED
A			REVISED PER TDRR 37531	DR	C	7/2/87	DR
B			REVISED PER TDRR 37583	DR	C	7/2/87	DR
C			REVISED PER TDRR 37575	DR	C	7/2/87	DR
D			REVISED PER TDRR 37665	DR	C	7/2/87	DR
E			REVISED PER TDRR 37797	DR	C	7/2/87	DR

LUMINARY PROGRAM ASSEMBLY 2021112

MODULE B-1	MODULE B-2	MODULE B-3	MODULE B-4	MODULE B-5	MODULE B-6	PROGRAM SPECIFICATION				
PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	ASSEMBLY DASH NO.	FUNCTION	LAUNCH PERIOD	EFFECTIVITY MASTER TAPE DECK NO.	PROGRAM REV. NO.
2003972-721	2003972-731	2003972-741	2003972-751	2003972-761	2003972-771	-011 ONE EACH PER COMPUTER B-1 B-2 B-3 B-4 B-5 B-6	APOLLO 10 & 11		2021152-001	LUMINARY 69
2003972-951	2003972-961	2003972-971	2003972-981	2003972-991	2003972-1011	-021 ONE EACH PER COMPUTER B-1 B-2 B-3 B-4 B-5 B-6	APOLLO 10 & 11		2021152-002	LUMINARY 96
2003972-721	2003972-931	2003972-741	2003972-751	2003972-761	2003972-771	-031 ONE EACH PER COMPUTER B-1 B-2 B-3 B-4 B-5 B-6	APOLLO 10 & 11		2021152-003	LUM 69 REV 2
2003972-1021	2003972-961	2003972-971	2003972-981	2003972-991	2003972-1011	-041 ONE EACH PER COMPUTER B-1 B-2 B-3 B-4 B-5 B-6	APOLLO 11		2021152-004	LUMINARY 97
2003972-1041	2003972-1051	2003972-971	2003972-981	2003972-1061	2003972-1011	-051 ONE EACH PER COMPUTER B-1 B-2 B-3 B-4 B-5 B-6	APOLLO 11		2021152-005	LUMINARY 99

CONTINUED ON SHEET 2

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ALL MODULES THAT MAKE UP THIS ASSEMBLY ARE TO BE TESTED TO AND MUST MEET THE REQUIREMENTS FOR THE INDIVIDUAL MODULE

QTY REQD		PART OR IDENTIFYING NO.		MATERIAL OR NOTED		HOMECENTRE OR DESCRIPTION		FIND NO.	
				LIST OF MATERIALS					
				MANNED SPACECRAFT CENTER HOUSTON, TEXAS					
				COMPUTER PROGRAM ASSEMBLY LUMINARY					
				DRAWING NO. 27-10-68 CHECKED <i>[Signature]</i> APPROVED <i>[Signature]</i> DATE <i>[Date]</i>					
				CODE IDENT NO. 80230 SIZE D DRAWING NO. 2021112					
				SCALE 1/1 SHEET 1 OF 2					

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NOTES: 1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327 2. ALL MODULES THAT MAKE UP THIS ASSEMBLY ARE TO BE TESTED TO AND MUST MEET THE REQUIREMENTS FOR THE INDIVIDUAL MODULE

REVISIONS					
SYM	ZONE	DESCRIPTION	DR	CHK	DATE
A		REVISED PER TDDR 37531	1/2/68	CV	1/2/68
B		REVISED PER TDDR 37583	1/4/68	CV	1/4/68
C		REVISED PER TDDR 37615	1/4/68	CV	1/4/68
D		REVISED PER TDDR 37665	1/4/68	CV	1/4/68
E		REVISED PER TDDR 37797	1/4/68	CV	1/4/68
F		REVISED PER TDDR 37918	1/4/68	CV	1/4/68

LUMINARY PROGRAM ASSEMBLY 2021112										
MODULE B-1						PROGRAM SPECIFICATION				
PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	ASSEMBLY DASH NO.	FUNCTION	LAUNCH PERIOD	EFFECTIVITY MASTER TAPE DECK NO.	PROGRAM REV. NO.
2003972-721	2003972-731	2003972-741	2003972-751	2003972-761	2003972-771	-011 ONE EACH PER COMPUTER B-1 B-2 B-3 B-4 B-5 B-6	APOLLO 10 & 11		2021152-001	LUMINARY 69
2003972-951	2003972-961	2003972-971	2003972-981	2003972-991	2003972-1011	-021 ONE EACH PER COMPUTER B-1 B-2 B-3 B-4 B-5 B-6	APOLLO 10 & 11		2021152-002	LUMINARY 96
2003972-721	2003972-931	2003972-741	2003972-751	2003972-761	2003972-771	-031 ONE EACH PER COMPUTER B-1 B-2 B-3 B-4 B-5 B-6	APOLLO 10 & 11		2021152-003	LUM 69 REV 2
2003972-1021	2003972-961	2003972-971	2003972-981	2003972-991	2003972-1011	-041 ONE EACH PER COMPUTER B-1 B-2 B-3 B-4 B-5 B-6	APOLLO 11		2021152-004	LUMINARY 97
2003972-1041	2003972-1051	2003972-971	2003972-981	2003972-1061	2003972-1011	-051 ONE EACH PER COMPUTER B-1 B-2 B-3 B-4 B-5 B-6	APOLLO 11		2021152-005	LUMINARY 99

CONTINUED ON SHEET 2

- NOTES:
- 1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 - 2. ALL MODULES THAT MAKE UP THIS ASSEMBLY ARE TO BE TESTED TO AND MUST MEET THE REQUIREMENTS FOR THE INDIVIDUAL MODULE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS				
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN BY J. B. 1/2/68		COMPUTER PROGRAM ASSEMBLY LUMINARY		
CHECKED BY J. B. 1/2/68				
APPROVED BY J. B. 1/2/68				
MATERIAL				
NEXT ASSY		USED ON		
APPLICATION				
APPROVED BY J. B. 1/2/68		CODE IDENT NO. 80230 D		
APPROVED BY J. B. 1/2/68		DRAWING NO. 2021112		
DATE		SCALE 1/1		
		SHEET 1 OF 2		

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REVISENS			
SYM	ZONE	DESCRIPTION	DR CHK DATE APPROVED
D		THIS SHEET ADDED PER TORR 37665	
E		REVISED PER TORR 37797	gaf slw 11/16/82
F		REVISED PER TORR 37918	slw 11/16/82

LUMINARY PROGRAM ASSEMBLY 2021112										
MODULE B-1	MODULE B-2	MODULE B-3	MODULE B-4	MODULE B-5	MODULE B-6	PROGRAM SPECIFICATION				
PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	ASSEMBLY DASH NO.	FUNCTION	LAUNCH PERIOD	EFFECTIVITY MASTER TAPE DECK NO.	PROGRAM REV NO.
2003972-1071	2003972-1051	2003972-971	2003972-981	2003972-1061	2003972-1011	-061 ONE EACH PER COMPUTER B-1 B-2 B-3 B-4 B-5 B-6	APOLLO 11 & 12		2021152-006	LUMINARY 99
2003972-1151	2003972-1161	2003972-1171	2003972-1181	2003972-1191	2003972-1211	-071 ONE EACH PER COMPUTER B-1 B-2 B-3 B-4 B-5 B-6	APOLLO 12		2021152-007	LUMINARY 116
2010802-071	2010802-081	2010802-091	2010802-111	2010802-121	2010802-131	-081 ONE EACH PER COMPUTER B-1 B-2 B-3 B-4 B-5 B-6	APOLLO 13		2021152-008	LUMINARY 130

④ THIS SHEET ADDED

		QTY REQ'D		PART OR IDENTIFYING NO.		MATERIAL OR DESCRIPTION		NOMENCLATURE OR DESCRIPTION		FIN NO.	
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CONDUCTOR VALUES ARE IN OHM; RESISTOR VALUES ARE IN OHM; TOLERANCES ON FRACTIONS DECIMALS ANGLES 5 10 DO NOT SCALE THIS DRAWING		MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		LIST OF MATERIALS			
				DRAWN <u>Jim Smith</u> 5 SEP 69		COMPUTER PROGRAM					
				CHECKED <u>Y. A. Brown</u> 8 SEP 69		ASSEMBLY					
				APPROVED <u>Y. A. Brown</u> 8 SEP 69		LUMINARY					
		MATERIAL		APPROVED MIT		CODE IDENT NO.		SIZE		DRAWING NO.	
						80230		D		2021112	
NEAT ASSY		USED ON		APPROVED MSC		DATE		SCALE 1/1		SHEET 2 OF 2	
APPLICATION											

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LUMINARY PROGRAM ASSEMBLY 2021112

MODULE B-1	MODULE B-2	MODULE B-3	MODULE B-4	MODULE B-5	MODULE B-6	PROGRAM SPECIFICATION				
PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	ASSEMBLY DASH NO.	FUNCTION	LAUNCH PERIOD	EFFECTIVITY MASTER TAPE DECK NO.	PROGRAM REV. NO.
2003972-721	2003972-731	2003972-741	2003972-751	2003972-761	2003972-771	-011 ONE EACH PER COMPUTER B-1 B-2 B-3 B-4 B-5 B-6	APOLLO 10 & 11		2021152-001	LUMINARY 69
2003972-951	2003972-961	2003972-971	2003972-981	2003972-991	2003972-1011	-021 ONE EACH PER COMPUTER B-1 B-2 B-3 B-4 B-5 B-6	APOLLO 10 & 11		2021152-002	LUMINARY 96
2003972-721	2003972-931	2003972-741	2003972-751	2003972-761	2003972-771	-031 ONE EACH PER COMPUTER B-1 B-2 B-3 B-4 B-5 B-6	APOLLO 10 & 11		2021152-003	LUM 69 REV 2
2003972-1021	2003972-961	2003972-971	2003972-981	2003972-991	2003972-1011	-041 ONE EACH PER COMPUTER B-1 B-2 B-3 B-4 B-5 B-6	APOLLO 11		2021152-004	LUMINARY 97
2003972-1041	2003972-1051	2003972-971	2003972-981	2003972-1061	2003972-1011	-051 ONE EACH PER COMPUTER B-1 B-2 B-3 B-4 B-5 B-6	APOLLO 11		2021152-005	LUMINARY 99

CONTINUED ON SHEET 2

NOTES

- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
- ALL MODULES THAT MAKE UP THIS ASSEMBLY ARE TO BE TESTED TO AND MUST MEET THE REQUIREMENTS FOR THE INDIVIDUAL MODULE

REVISIONS 2021112						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TORR 37531	JA	CV	11/11/71	516
B		REVISED PER TORR 37531	JA	CV	11/11/71	516
C		REVISED PER TORR 37531	JA	CV	11/11/71	516
D		REVISED PER TORR 37665	JA	CV	11/11/71	516
E		REVISED PER TORR 37797	JA	CV	11/11/71	516
F		REVISED PER TORR 37955	JA	CV	11/11/71	516
G		REVISED PER TORR 37918	JA	CV	11/11/71	516
H		REVISED PER TORR 38021	JA	CV	11/11/71	516
J		REVISED PER TORR 38133	JA	CV	11/11/71	516
K		REVISED PER TORR 38174	JA	CV	11/11/71	516
L		REVISED PER TORR 38251	JA	CV	11/11/71	516

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIG. NO.
LIST OF MATERIALS				
M.I.T. INSTRUMENTATION LAB CAMBRIDGE MASS		MANNED SPACECRAFT CENTER HOUSTON TEXAS		
DRAWN 10/21/71		COMPUTER PROGRAM ASSEMBLY LUMINARY		
CHECKED 10/21/71		CODE IDENT NO 80230		
APPROVED 10/21/71		DRAWING NO 2021112		
APPROVED M.I.T.		DATE SCALE 1/1		
APPROVED MSC		SHEET 1 OF 1		

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
H		1" S SHEET ADDED PER TDRR 36021			4/10/01	CB
J		REVISED PER TDRR 36113			5/14/01	CB
K		REVISED PER TDRR 36174			7/27/01	CB
L		REVISED PER TDRR 36251			10/17/01	CB

LUMINARY PROGRAM ASSEMBLY 2021112											
MODULE B-1	MODULE B-2	MODULE B-3	MODULE B-4	MODULE B-5	MODULE B-6	PROGRAM SPECIFICATION					
PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	ASSEMBLY DASH NO.	FUNCTION	EFFECTIVITY	LAUNCH PERIOD	MASTER TAPE DECK NO.	PROGRAM REV. NO.
2010802-071	2010802-081	2010802-091	2010802-111	2010802-161	2010802-131	-111 ONE EACH PER COMPUTER				2021152-010	LUM 131, REV 9
						B-1					
						B-2					
						B-3					
						B-4					
						B-5					
						B-6					
2010802-071	2010802-081	2010802-091	2010802-111	2010802-171	2010802-131	-121 ONE EACH PER COMPUTER	APOLLO 13			2021152-011	LUM 131, REV 1
						B-1					
						B-2					
						B-3					
						B-4					
						B-5					
						B-6					
N/A	N/A	N/A	N/A	N/A	N/A	-131	CANCELLED			2021152-012	
2010802-251	2010802-261	2010802-271	2010802-281	2010802-291	2010802-311	-141 ONE EACH PER COMPUTER	APOLLO 14			2021152-013	LUMINARY 17
						B-1					
						B-2					
						B-3					
						B-4					
						B-5					
						B-6					
2010802-321	2010802-331	2010802-341	2010802-351	2010802-361	2010802-371	-151 ONE EACH PER COMPUTER	APOLLO 14			2021152-014	LUMINARY 17
						B-1					
						B-2					
						B-3					
						B-4					
						B-5					
						B-6					

(H) THIS SHEET ADDED

QTY	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIN.
LIST OF MATERIALS				
MIT		MANNED SPACECRAFT CENTER		
INSTRUMENT LAB		HOUSTON, TEXAS		
CAMERAE HARS				
DRAWN <i>E. L. Smith</i>		COMPUTER PROGRAM		
CHECKED <i>W. H. Smith</i>		ASSEMBLY		
APPROVED <i>E. L. Smith</i>		LUMINARY		
APPROVED				
APPROVED MIT		CODE IDENT NO.	SIZE	DRAWING NO.
		807.30	D	20211 2
APPROVED MHC		SCALE 1:1	SHEET 3 OF 4	

REVISIONS						
SYM	ZONE	DESCRIPTION	BP	CHK	DATE	APPROVED
E		THIS SHEET ADDED PER TDRR 37742				
F		REVISED PER TDRR 37917	OK	OK	4/5/97	PLS
G		REVISED PER TDRR 37968	OK	OK	4/6/97	PER 37968

COLOSSUS 2 PROGRAM ASSEMBLY 2021113										
MODULE B-1	MODULE B-2	MODULE B-3	MODULE B-4	MODULE B-5	MODULE B-6	PROGRAM SPECIFICATION				
PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	ASSEMBLY DASH NO.	FUNCTION	EFFECTIVITY		
								LAUNCH PERIOD	MASTER DIFF DECK NO.	PROGRAM REV. NO.
2003972-1081	2003972-1091	2003972-1111	2003972-1121	2003972-1131	2003972-1141	-061 ONE EACH PER COMPUTER B-1 B-2 B-3 B-4 B-5 B-6	APOLLO 12		2021153-006	COMANCHE 67
2010802-011	2010802-021	2010802-031	2010802-041	2010802-051	2010802-061	-071 ONE EACH PER COMPUTER B-1 B-2 B-3 B-4 B-5 B-6	APOLLO 13		2021153-007	COMANCHE 72
2010802-011	2010802-151	2010802-031	2010802-041	2010802-051	2010802-061	-081 ONE EACH PER COMPUTER B-1 B-2 B-3 B-4 B-5 B-6	APOLLO 13		2021153-038	MANCHE 72 REV 3

QTY REQD		PART OR IDENTIFYING NO		MATERIAL OR NOTES		NOMENCLATURE OR DESCRIPTION		FORM NO	
				LIST OF MATERIALS					
				MANNED SPACECRAFT CENTER HOUSTON, TEXAS					
				COMPUTER PROGRAM ASSEMBLY COLOSSUS 2					
				CODE IDENT NO		SIZE		DRAWING NO.	
				80230		D		2021113	
				APPROVED DATE		SCALE		SHEET	
				APPROVED DATE		SCALE		SHEET	

8	7	6	5	4	3
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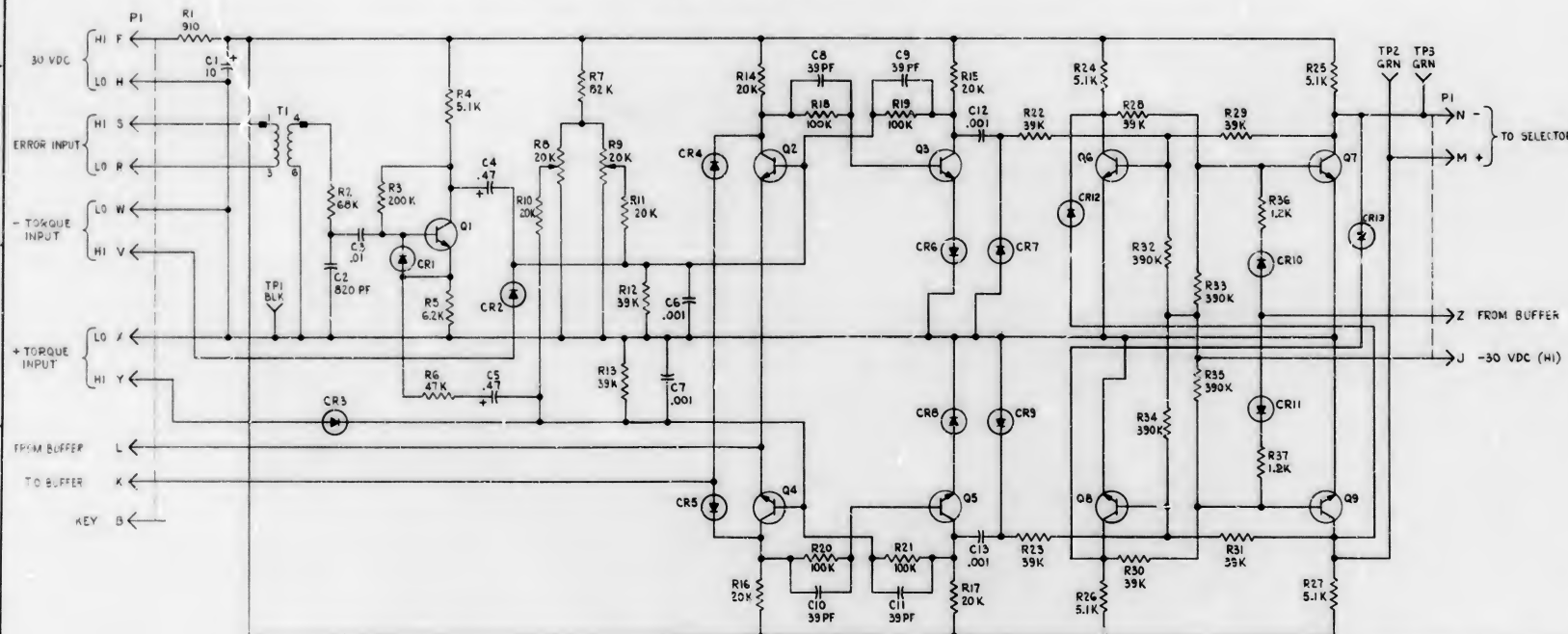
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ALL PART NUMBERS ARE FOR REFERENCE ONLY.
3. DRAWINGS FOR REFERENCE:
2900076-011 INTERROGATOR, ELEC COMPONENT ASSY
4. UNLESS OTHERWISE SPECIFIED:
A. VALUES ARE IN OHMS AND MICROFARADS.

UNUSED TERMINALS	
REF DES	TERMINAL NO.
PI	A, C, D, E, P, T, U

REF DES	PART NUMBER	DESCRIPTION	SCHEMATIC DIAGRAM OR VALUE, TOL & RATING
C1	C513AG100K	CAPACITOR	MIL-C-26655/2
C2	CM20D821J03		MIL-C-5/2
C3	CP05A1KF105K3		MIL-C-5/1
C4	CS15AFR47K		MIL-C-26655/2
C5	CS15AFR47K		MIL-C-26655/2
C6	CM20D102J03		MIL-C-5/2
C7	CM20D102J03		MIL-C-5/2
C8	CM15C390J03		MIL-C-5/1
C9			
C10			
C11	CM20D102J03		MIL-C-5/2
C12	CM20D102J03		MIL-C-5/2
C13			
CR1	IN914	SEMICONDUCTOR, MIL-5-19500/116	
CR2			
CR3			
CR4			
CR5			
CR6			
CR7			
CR8			
CR9			
CR10			
CR11			
CR12			
CR13			
PI	1015956-148	CONNECTOR, ADAPTER	
Q1	1015928-001		TRANSISTOR SPL 2N2193
Q2			
Q3			
Q4			
Q5			
Q6			
Q7			
Q8			
Q9			
R1	RC32GF911J	RESISTOR	MIL-R-11/6
R2	RC07GF683J		MIL-R-11/8
R3	RC07GF204J		MIL-R-11/8

REF DES	PART NUMBER	DESCRIPTION	SCHEMATIC DIAGRAM OR VALUE, TOL & RATING
R4	RC07GF512J	RESISTOR	MIL-R-11/8
R5	RC07GF622J		
R6	RC07GF473J		
R7	RC07GF623J		
R8	RT12C21-203		MIL-R-27208/8
R9	RT12C21-203		MIL-R-27208/8
R10	RC07GF203J		MIL-R-11/8
R11	RC07GF203J		
R12	RC07GF395J		
R13	RC07GF433J		
R14	RC07GF103J		
R15			
R16			
R17	RC07GF104J		
R18			
R19			
R20			
R21	RC07GF393J		
R22	RC07GF393J		
R23	RC07GF393J		
R24	RC07GF512J		
R25			
R26			
R27	RC07GF393J		
R28			
R29			
R30			
R31	RC07GF394J		
R32			
R33			
R34			
R35	RC07GF122J		
R36	RC07GF122J		
R37			
T1	1015898-017	TRANSFORMER, AUDIO FREQ	
TP1	1016347-003		JACK, MINIATURE
TP2	1016347-004		JACK, MINIATURE
TP3	1016347-004		JACK, MINIATURE

REVISIONS			
REV	DESCRIPTION	DATE	BY
A	REVISED PER DD-60573		
B	REVISED PER MAC 2-3-40		
C	INITIAL RELEASE CLASS A PER TIME 1-1-50		
D	REVISED PER TORR 24842		



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES + - - - - - CHECKED BY <i>[Signature]</i> APPROVED BY <i>[Signature]</i> DO NOT SCALE THIS DRAWING MATERIAL CONTRACT NAS 9-497		AC SPARK PLUG DIVISION INC. SPARK PLUGS MILWAUKEE, WISCONSIN CHECKED BY <i>[Signature]</i> APPROVED BY <i>[Signature]</i> DO NOT SCALE THIS DRAWING MATERIAL CONTRACT NAS 9-497		MANUFACTURED BY SPACECRAFT CENTER MILWAUKEE, WISCONSIN CHECKED BY <i>[Signature]</i> APPROVED BY <i>[Signature]</i> DO NOT SCALE THIS DRAWING MATERIAL CONTRACT NAS 9-497	
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